

Unit/Vehicle No.: U256
Unit Make: Hitachi
Unit Model: ZX490-5
Unit Serial No.:
Unit/Vehicle Site: Plumpton
Comp Name: Engine Single/Front
Comp Make:
Comp Model:
Comp Serial No.:
System Capacity: 43.0 Ltrs

Customer Number
260401
 JAYDO CONSTRUCTION
 91 Boundry Road
 Curram Downs VIC 3201

		Current Sample	Last Sample	Previous Sample	Previous Sample	Normal	
SAMPLE STATUS							
LAB CHECK NO.		42401744	42383669	29780184		LEGEND  Severe  Abnormal  Caution  Normal	
TRACKING NUMBER							
ANALYSIS NO.		10204991954	10204948458	10204888502			
SAMPLED DATE		10-Sep-21	25-Jun-21	15-Feb-21			
RECEIVED DATE		01-Oct-21	28-Jun-21	17-Feb-21			
REPORTED DATE		05-Oct-21	30-Jun-21	18-Feb-21			
MACHINE		Hrs 2571	1999				
OIL		Hrs 550		1500			
OIL MAKE		Fuchs	Unidentified	Unidentified			
OIL GRADE		SAE 15W40	-	-			
OIL ADDED		Ltrs					
OIL CHANGED		Yes	Yes				
FILTER		Hrs					
FILTER CHANGED		Yes	Yes				
Metals (ppm)							
Aluminium (Al)		2	3	2	0 - 13 (gl)	Guidelines (gl) Guidelines (fr) Fluid Reference () No reference	
*Nickel (Ni)		<1	<1	<1	0 - 8 (gl)		
*Copper (Cu)		19	2	2	0 - 22 (gl)		
*Chromium (Cr)		1	1	1	0 - 8 (gl)		
*Iron (Fe)		14	16	30	0 - 90 (gl)		
*Lead (Pb)		1	1	1	0 - 36 (gl)		
*Tin (Sn)		1	<1	1	0 - 8 (gl)		
Contaminants and Additives (ppm)							
*Silicon (Si)		3	5	5	0 - 20 (gl)		
Boron (B)		<5	41	123	(*)		
*Sodium (Na)		<1	1	<1	0 - 30 (gl)		
*Potassium (K)		2	<1	2	0 - 30 (gl)		
Phosphorus (P)		907	753	968	()		
Molybdenum (Mo)		5	37	6	()		
Calcium (Ca)		2451	1867	4793	()		
Magnesium (Mg)		49	451	47	()		
Zinc (Zn)		1032	915	1285	()		
Physical Tests							
Water (%) (FTIR)		<0.1	<0.1	<0.1	0 - 0.20 (gl)		
Soot (%) (FTIR)		1.2	1.1	1.1	0 - 3.10 (gl)		
Viscosity (cSt,100°C)		13.8	13.4	13.4	14.4 (fr)		
PQ Index		<10	<10	<10	0 - 30 (gl)		
Oxidation (Abs) (FTIR)		12.7	21.6	11.1	0 - 30 (gl)		
Sulphation (Abs) (FTIR)		24.9	28.3	22.3	0 - 35 (gl)		
Fuel (%) by G.C.)		<0.1	<0.1	<0.1	0 - 4.40 (gl)		
Total Base Number (FTIR)		7.2	8.3	12.2	(*)		

DIAGNOSIS *Please contact your local Hitachi outlet for further explanation on non-normal samples*

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range. Action: As oil and filter(s) already changed, resample next recommended service interval to further monitor.

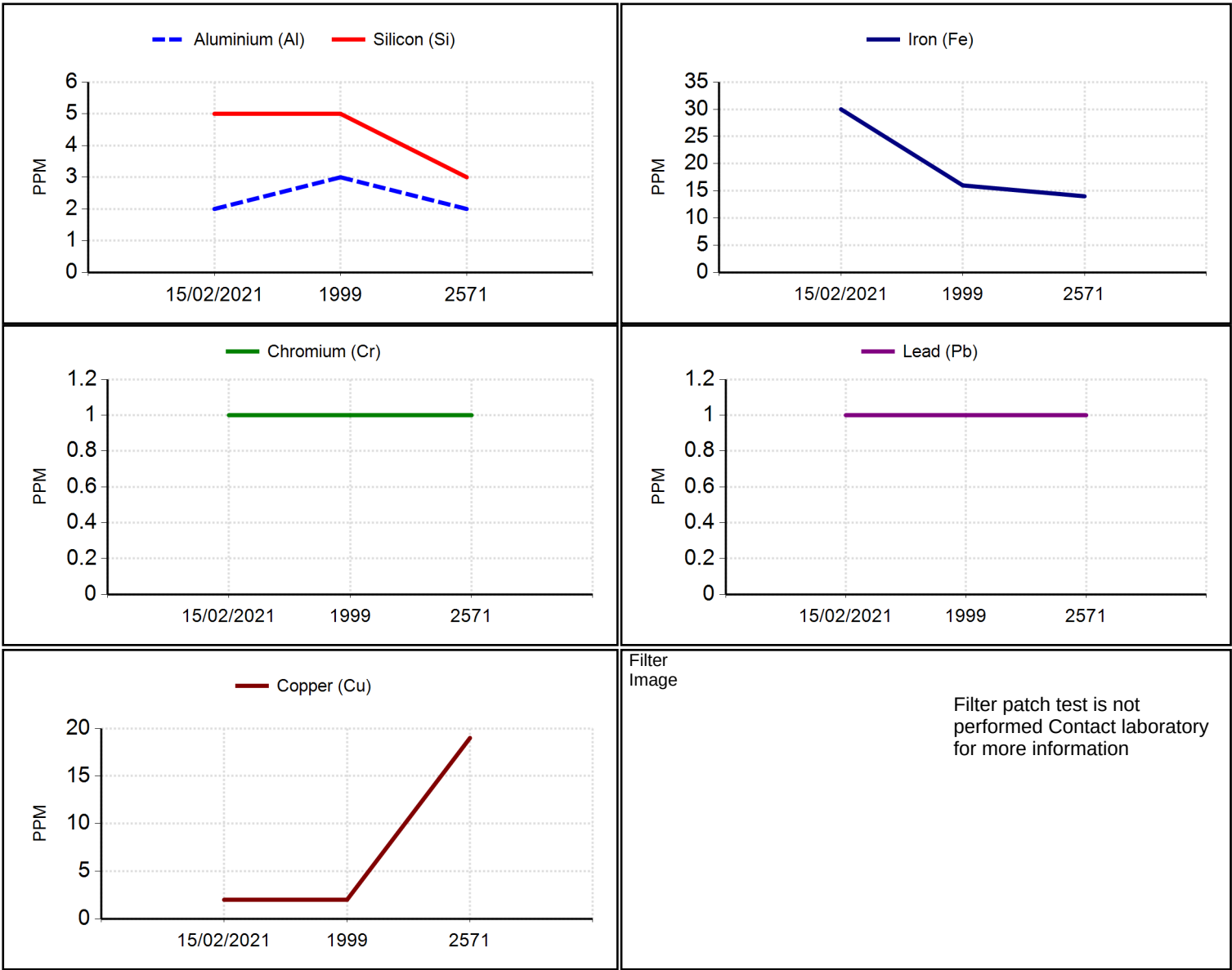
NATA Accreditation No. 825. Site No. 2024. *NATA accreditation covers the performance of this service.

PREVIOUS DIAGNOSIS

As oil brand/grade/time on oil unknown, diagnosis is limited. However, All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range.

Action: As oil and filter(s) already changed, resample next recommended service interval to further monitor.

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Unit/Vehicle No.: 256
Unit Make: Hitachi
Unit Model: ZX490LCH-5A
Unit Serial No.: HCMJAE20V00061031
Unit/Vehicle Site:
Comp Name: Engine Single/Front
Comp Make:
Comp Model:
Comp Serial No.:
System Capacity: 57.0

Customer Number
260401
 JAYDO CONSTRUCTION
 91 Boundry Road
 Curram Downs VIC 3201

		Current Sample	Last Sample	Previous Sample	Previous Sample	Normal	
SAMPLE STATUS							
LAB CHECK NO.		97808557	96532650	96238465			
TRACKING NUMBER		WO00139173	wo00084159				
ANALYSIS NO.		10205046994	10204811877	10204754608			
SAMPLED DATE		02-Feb-22	28-Aug-20	05-May-20			
RECEIVED DATE		15-Feb-22	03-Sep-20	08-May-20			
REPORTED DATE		18-Feb-22	04-Sep-20	12-May-20			
MACHINE	Hrs	3025	981	475			
OIL	Hrs	2044	506	475			
OIL MAKE		DH-1 Genuine	DH-1 Genuine	DH-1 Genuine			
OIL GRADE		SAE 15W40	SAE 15W40	SAE 15W40			
OIL ADDED		0.0	0.0	0.0			
OIL CHANGED		Yes	Yes	Yes			
FILTER	Hrs	2044	506	475			
FILTER CHANGED		Yes	Yes	Yes			
Metals (ppm)							
*Aluminium (Al)		3	3	2	0 - 14 (gl)		
*Nickel (Ni)		<1	<1	<1	0 - 4 (gl)		
*Copper (Cu)		1	2	1	0 - 54 (gl)		
*Chromium (Cr)		<1	1	<1	0 - 9 (gl)		
*Iron (Fe)		13	23	9	0 - 54 (gl)		
*Lead (Pb)		2	1	1	0 - 14 (gl)		
*Tin (Sn)		1	1	1	0 - 4 (gl)		
Contaminants and Additives (ppm)							
*Silicon (Si)		4	4	6	0 - 24 (gl)		
Boron (B)		134	104	166	176 (fr)		
*Sodium (Na)		<1	<1	2	0 - 9 (gl)		
*Potassium (K)		1	1	<1	0 - 9 (gl)		
*Phosphorus (P)		867	806	992	1000 (fr)		
*Molybdenum (Mo)		5	<1	1	<1 (fr)		
*Calcium (Ca)		2104	3980	4203	4220 (fr)		
*Magnesium (Mg)		10	12	11	22 (fr)		
*Zinc (Zn)		1073	988	1123	1186 (fr)		
Physical Tests							
Water (%) (FTIR)		<0.1	<0.1	<0.1	0 - 0.09 (gl)		
Soot (%) (FTIR)		0.3	0.9	0.8	0 - 2.0 (gl)		
Viscosity (cSt,100°C)		13.1	12.6	13.3	14.0 (fr)		
PQ Index		<10	<10	<10	0 - 19 (gl)		
Oxidation (Abs) (FTIR)		10.8	10.3	8.9	0 - 19.90 (gl)		
Sulphation (Abs) (FTIR)		19.5	23.5	17.6	0 - 24.90 (gl)		
Fuel (%) by G.C.)		<0.1	<0.1	<0.1	0 - 3 (gl)		
Total Base Number (FTIR)		6.8	13.5	13.5	10.21 (fr)		

DIAGNOSIS

Please contact your local Hitachi outlet for further explanation on non-normal samples

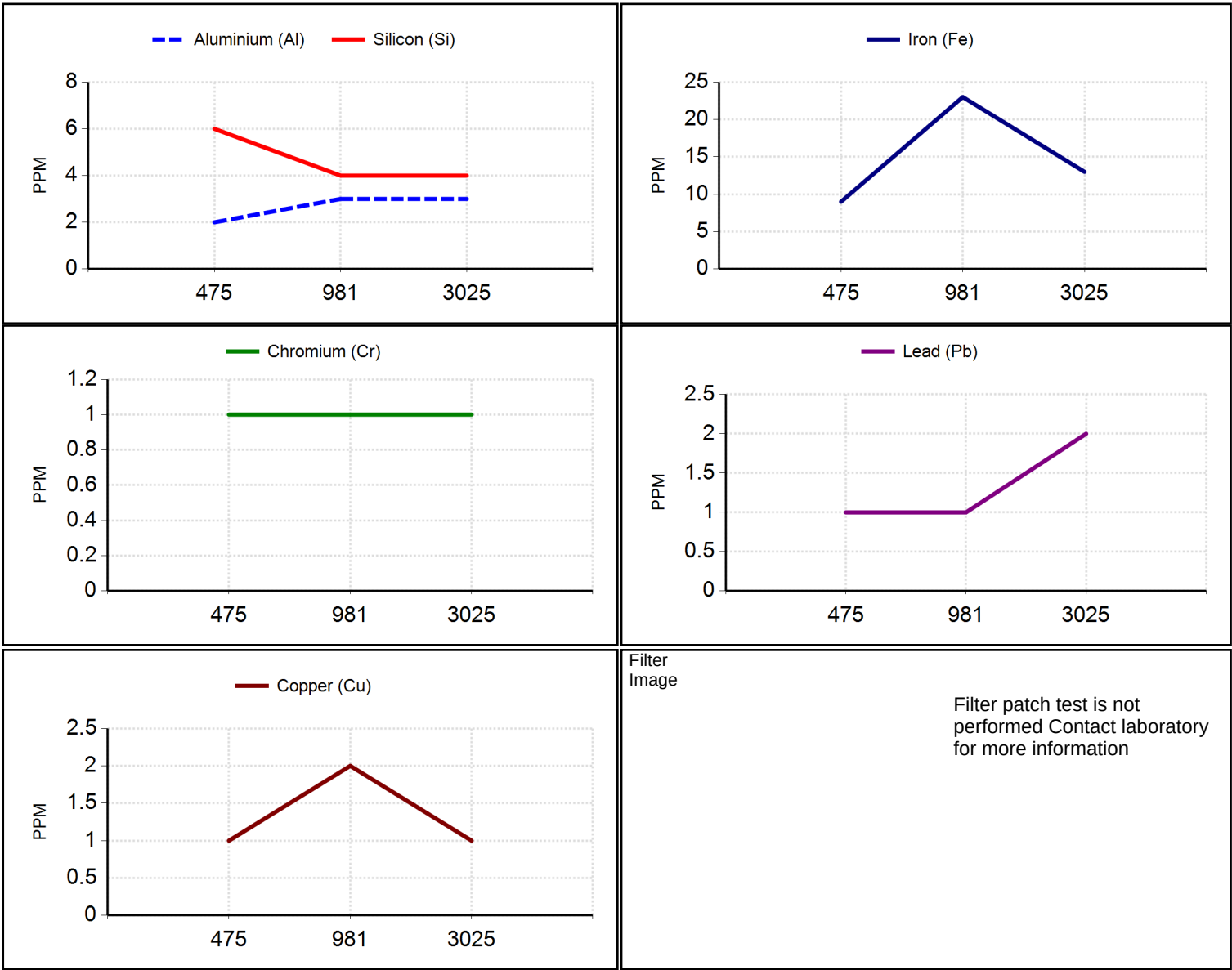
All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range, however additive package indicates a different oil is in use. Action: As oil and filter(s) already changed, resample next recommended service interval to further monitor. NATA Accreditation No. 825. Site No. 2024. *NATA accreditation covers the performance of this service.

PREVIOUS DIAGNOSIS

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range.

Action: As oil and filter(s) already changed, resample next recommended service interval to further monitor.

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Unit/Vehicle No.: 256
Unit Make: Hitachi
Unit Model: ZX490LCH-5A
Unit Serial No.: HCMJAE20V00061031
Unit/Vehicle Site:
Comp Name: Engine Single/Front
Comp Make:
Comp Model:
Comp Serial No.:
System Capacity: 57.0

Customer Number
260401
 JAYDO CONSTRUCTION
 91 Boundry Road
 Curram Downs VIC 3201

		Current Sample	Last Sample	Previous Sample	Previous Sample	Normal	
SAMPLE STATUS							
LAB CHECK NO.		99113297	42758412	98483962	97808557	LEGEND  Severe  Abnormal  Caution  Normal	
TRACKING NUMBER					WO00139173		
ANALYSIS NO.		10205257024	10205209805	10205152899	10205046994		
SAMPLED DATE		16-May-23	11-Feb-23	15-Oct-22	02-Feb-22		
RECEIVED DATE		20-Jun-23	08-Mar-23	26-Oct-22	15-Feb-22		
REPORTED DATE		23-Jun-23	10-Mar-23	28-Oct-22	18-Feb-22		
MACHINE	Hrs	5000	4500	4000	3025		
OIL	Hrs	500	500	975	2044		
OIL MAKE		DH-1 Genuine	DH-1 Genuine	DH-1 Genuine	DH-1 Genuine		
OIL GRADE		SAE 15W40	SAE 15W40	SAE 15W40	SAE 15W40		
OIL ADDED		0.0		0.0	0.0		
OIL CHANGED		Yes	Yes	Yes	Yes		
FILTER	Hrs	500		975	2044		
FILTER CHANGED		Yes	Yes	Yes	Yes		
Metals (ppm)						Guidelines	
*Aluminium (Al)		3	2	2	3	0 - 14	(gl)
*Nickel (Ni)		<1	<1	<1	<1	0 - 4	(gl)
*Copper (Cu)		1	1	3	1	0 - 54	(gl)
*Chromium (Cr)		1	<1	1	<1	0 - 9	(gl)
*Iron (Fe)		15	10	19	13	0 - 54	(gl)
*Lead (Pb)		2	1	1	2	0 - 14	(gl)
*Tin (Sn)		1	1	1	1	0 - 4	(gl)
Contaminants and Additives (ppm)							
*Silicon (Si)		4	2	4	4	0 - 24	(gl)
Boron (B)		82	120	6	134	176	(fr)
*Sodium (Na)		5	3	20	<1	0 - 9	(gl)
*Potassium (K)		<1	8	69	1	0 - 9	(gl)
*Phosphorus (P)		962	956	957	867	1000	(fr)
*Molybdenum (Mo)		1	2	10	5	<1	(fr)
*Calcium (Ca)		4336	2075	2459	2104	4220	(fr)
*Magnesium (Mg)		12	10	9	10	22	(fr)
*Zinc (Zn)		1218	1076	1091	1073	1186	(fr)
Physical Tests							
Water (%) (FTIR)		<0.1	<0.1	<0.1	<0.1	0 - 0.09	(gl)
Soot (%) (FTIR)		1.2	0.5	1.1	0.3	0 - 2.0	(gl)
Viscosity (cSt,100°C)		13.7	13.8	13.9	13.1	14.0	(fr)
PQ Index		<10	<10	<10	<10	0 - 19	(gl)
Oxidation (Abs) (FTIR)		12.8	10.5	11.2	10.8	0 - 19.90	(gl)
Sulphation (Abs) (FTIR)		23.5	18.2	20.9	19.5	0 - 24.90	(gl)
Fuel (%) by G.C.)		<0.1	<0.1	<0.1	<0.1	0 - 3	(gl)
Total Base Number (FTIR)		11.9	7.5	7.3	6.8	10.21	(fr)

DIAGNOSIS

Please contact your local Hitachi outlet for further explanation on non-normal samples

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range. Action: As oil and filter(s) already changed, resample next recommended service interval to further monitor.

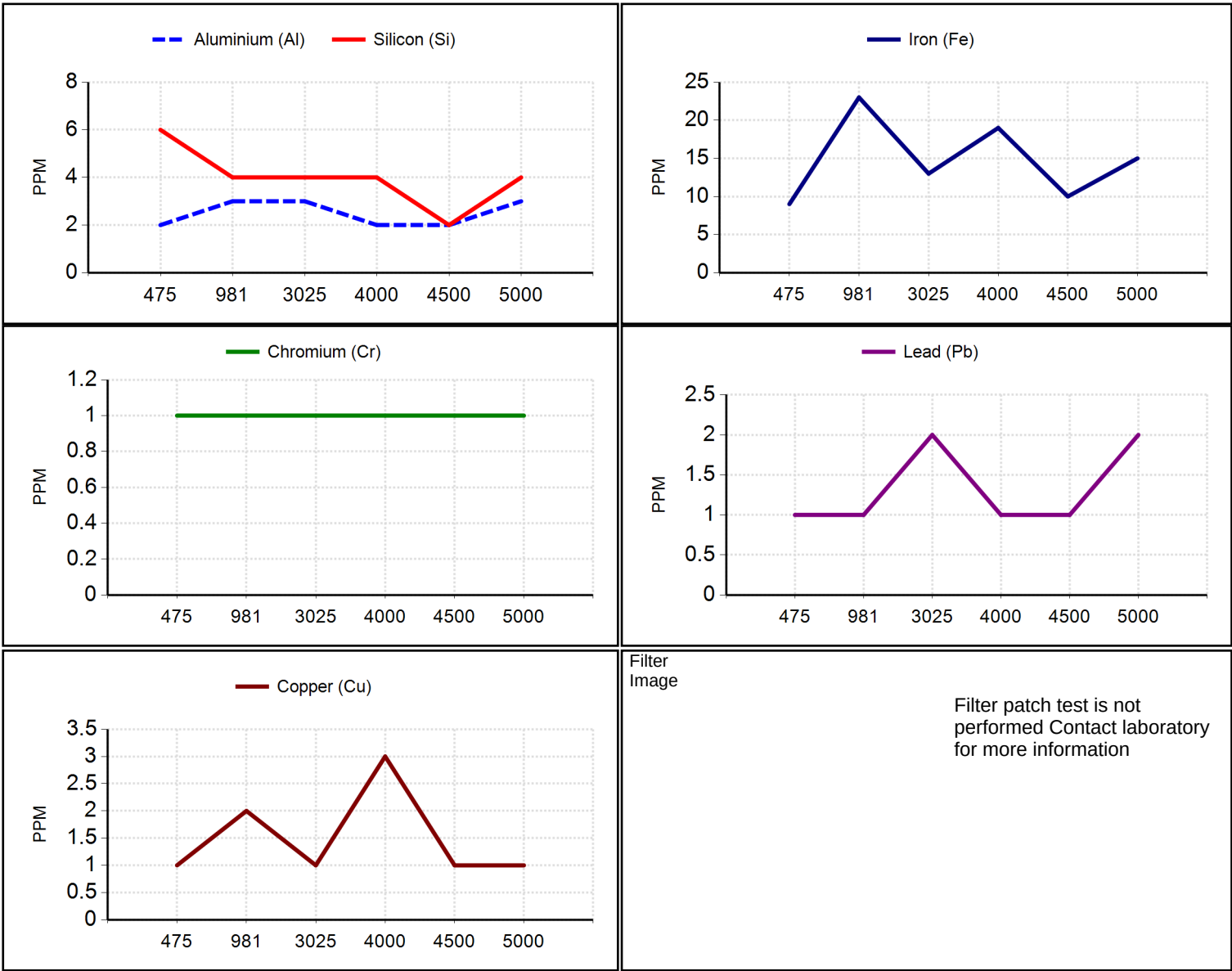
NATA Accreditation No. 825. Site No. 2024. *NATA accreditation covers the performance of this service.

PREVIOUS DIAGNOSIS

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range, however additive package indicates a mixture of oils.

Action: As oil and filter(s) already changed, resample next recommended service interval to further monitor.

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Unit/Vehicle No.: 256
Unit Make: Hitachi
Unit Model: ZX490LCH-5A
Unit Serial No.: HCMJAE20V00061031
Unit/Vehicle Site:
Comp Name: Engine Single/Front
Comp Make:
Comp Model:
Comp Serial No.:
System Capacity: 57.0

Customer Number
260401
 JAYDO CONSTRUCTION
 91 Boundry Road
 Curram Downs VIC 3201

		Current Sample	Last Sample	Previous Sample	Previous Sample	Normal			
SAMPLE STATUS									
LAB CHECK NO.		101624394	101160528	99490084	99303518	LEGEND  Severe  Abnormal  Caution  Normal			
TRACKING NUMBER									
ANALYSIS NO.		10205662824	10205587650	10205322253	10205292586				
SAMPLED DATE		04-Oct-25	24-May-25	28-Oct-23	24-Aug-23				
RECEIVED DATE		10-Nov-25	11-Jun-25	06-Nov-23	05-Sep-23				
REPORTED DATE		12-Nov-25	12-Jun-25	07-Nov-23	06-Sep-23				
MACHINE	Hrs	8500	8000	6000	5500				
OIL	Hrs	500	2000	500	500				
OIL MAKE		DH-1 Genuine	DH-1 Genuine	DH-1 Genuine	DH-1 Genuine				
OIL GRADE		SAE 15W40	SAE 15W40	SAE 15W40	SAE 15W40				
OIL ADDED		0.0	0.0	0.0	0.0				
OIL CHANGED		Yes	Yes	Yes	Yes				
FILTER	Hrs	500	2000	500	500				
FILTER CHANGED		Yes	Yes	Yes	Yes				
Metals (ppm)						LEGEND (gl) Guidelines (fr) Fluid Reference (*) No reference			
*Aluminium (Al)		2	3	2	2			0 - 14	(gl)
*Nickel (Ni)		<1	<1	<1	<1			0 - 4	(gl)
*Copper (Cu)		7	30	1	1			0 - 54	(gl)
*Chromium (Cr)		<1	1	<1	1			0 - 9	(gl)
*Iron (Fe)		10	13	15	14			0 - 54	(gl)
*Lead (Pb)		4	7	1	2			0 - 14	(gl)
*Tin (Sn)		2	1	1	1			0 - 4	(gl)
Contaminants and Additives (ppm)									
*Silicon (Si)		4	3	4	4			0 - 24	(gl)
Boron (B)		<5	<5	309	292			176	(fr)
*Sodium (Na)		<1	1	10	2			0 - 9	(gl)
*Potassium (K)		1	1	6	<1			0 - 9	(gl)
*Phosphorus (P)		923	975	1141	1151			1000	(fr)
*Molybdenum (Mo)		1	1	96	89	<1	(fr)		
*Calcium (Ca)		2372	2548	1518	1876	4220	(fr)		
*Magnesium (Mg)		9	9	392	383	22	(fr)		
*Zinc (Zn)		977	1056	1238	1259	1186	(fr)		
Physical Tests									
Water (%) (FTIR)		<0.1	<0.1	<0.1	<0.1			0 - 0.09	(gl)
Soot (%) (FTIR)		1.1	1.3	0.9	1.1			0 - 2.0	(gl)
Viscosity (cSt,100°C)		14.5	14.7	13.5	13.7			14.0	(fr)
PQ Index		<10	<10	<10	<10			0 - 19	(gl)
Oxidation (Abs) (FTIR)		13.5	13.9	19.1	18.6			0 - 19.90	(gl)
Sulphation (Abs) (FTIR)		24.9	26.7	27.7	27.9			0 - 24.90	(gl)
Fuel (%) by G.C.)		0.5	0.4	<0.1	<0.1			0 - 3	(gl)
Total Base Number (FTIR)		6.8	7.0	6.8	7.6	10.21	(fr)		

DIAGNOSIS

Please contact your local Hitachi outlet for further explanation on non-normal samples

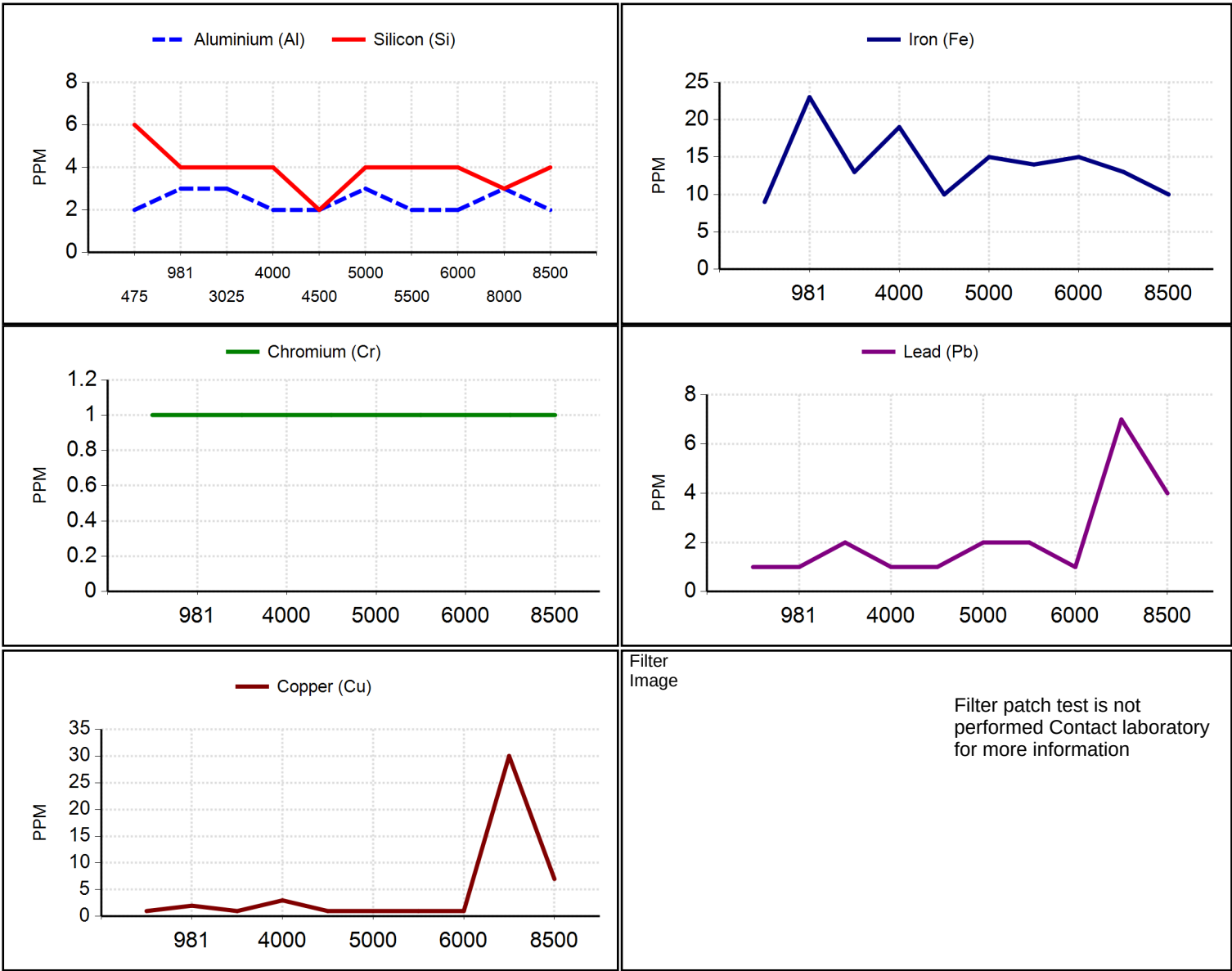
All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range, however additive package indicates a mixture of oils. Action: As oil and filter(s) already changed, resample next recommended service interval to further monitor.
 NATA Accreditation No. 825. Site No. 2024. *NATA accreditation covers the performance of this service.

PREVIOUS DIAGNOSIS

All wear rates normal. Infra-red analysis indicates sulphation level elevated. Other contaminant levels acceptable. Viscosity within specified operating range, however additive package indicates a mixture of oils.

Action: Check for excessive blow-by or incorrect operating temperature. As oil and filter(s) already changed, resample next recommended service interval to further monitor.

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Unit/Vehicle No.: U256
Unit Make: Hitachi
Unit Model: ZX490-5
Unit Serial No.:
Unit/Vehicle Site: Plumpton
Comp Name: Hydraulic
Comp Make: Yanmar
Comp Model: .
Comp Serial No.:
System Capacity: 38.0 Ltrs

Customer Number
260401
 JAYDO CONSTRUCTION
 91 Boundry Road
 Curram Downs VIC 3201

Current Sample Last Sample Previous Sample Previous Sample

SAMPLE STATUS



LAB CHECK NO. 42383739
 TRACKING NUMBER
 ANALYSIS NO. 10204947772
 SAMPLED DATE 23-Jun-21
 RECEIVED DATE 25-Jun-21
 REPORTED DATE 28-Jun-21
 MACHINE Hrs
 OIL Hrs
 OIL MAKE Unidentified
 OIL GRADE -
 OIL ADDED Ltrs
 OIL CHANGED
 FILTER Hrs
 FILTER CHANGED

Metals (ppm)

*Aluminium (Al) <1
 *Copper (Cu) 6
 *Chromium (Cr) <1
 *Iron (Fe) 8
 *Lead (Pb) 2
 *Tin (Sn) <1
 *Nickel (Ni) <1

Contaminants and Additives (ppm)

*Silicon (Si) 1
 Boron (B) <5
 *Sodium (Na) 1
 *Potassium (K) <1
 *Phosphorus (P) 326
 *Molybdenum (Mo) <1
 *Magnesium (Mg) 10
 *Calcium (Ca) 23
 *Zinc (Zn) 171

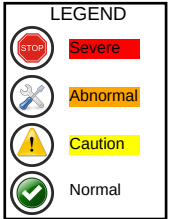
Physical Tests

Oxidation (Abs) (FTIR) 7.1
 Viscosity (cSt,40°C) 45
 Viscosity (cSt,100°C) 7.5
 *Viscosity Index (ASTM D2270) 135
 PQ Index <10
 *Water (D6304B 160°C) ppm 41

Particle Count

*ISO 4406 Code 20/16/11
 *ISO Clean 4 Micron (c) 20
 *ISO Clean 6 Micron (c) 16
 *ISO Clean 14 Micron (c) 11

Normal



Guidelines

0 - 8 (gl)
 0 - 45 (gl)
 0 - 3 (gl)
 0 - 18 (gl)
 0 - 18 (gl)
 0 - 8 (gl)
 0 - 3 (gl)
 0 - 20 (gl)
 (*)
 0 - 50 (gl)
 0 - 50 (gl)
 (*)
 (*)
 (*)
 (*)
 0 - 20 (gl)
 0 - 1000 (gl)
 (*)
 8 - 21 (gl)
 6 - 19 (gl)
 4 - 16 (gl)

LEGEND
 (gl) Guidelines
 (fr) Fluid Reference
 (*) No reference

DIAGNOSIS

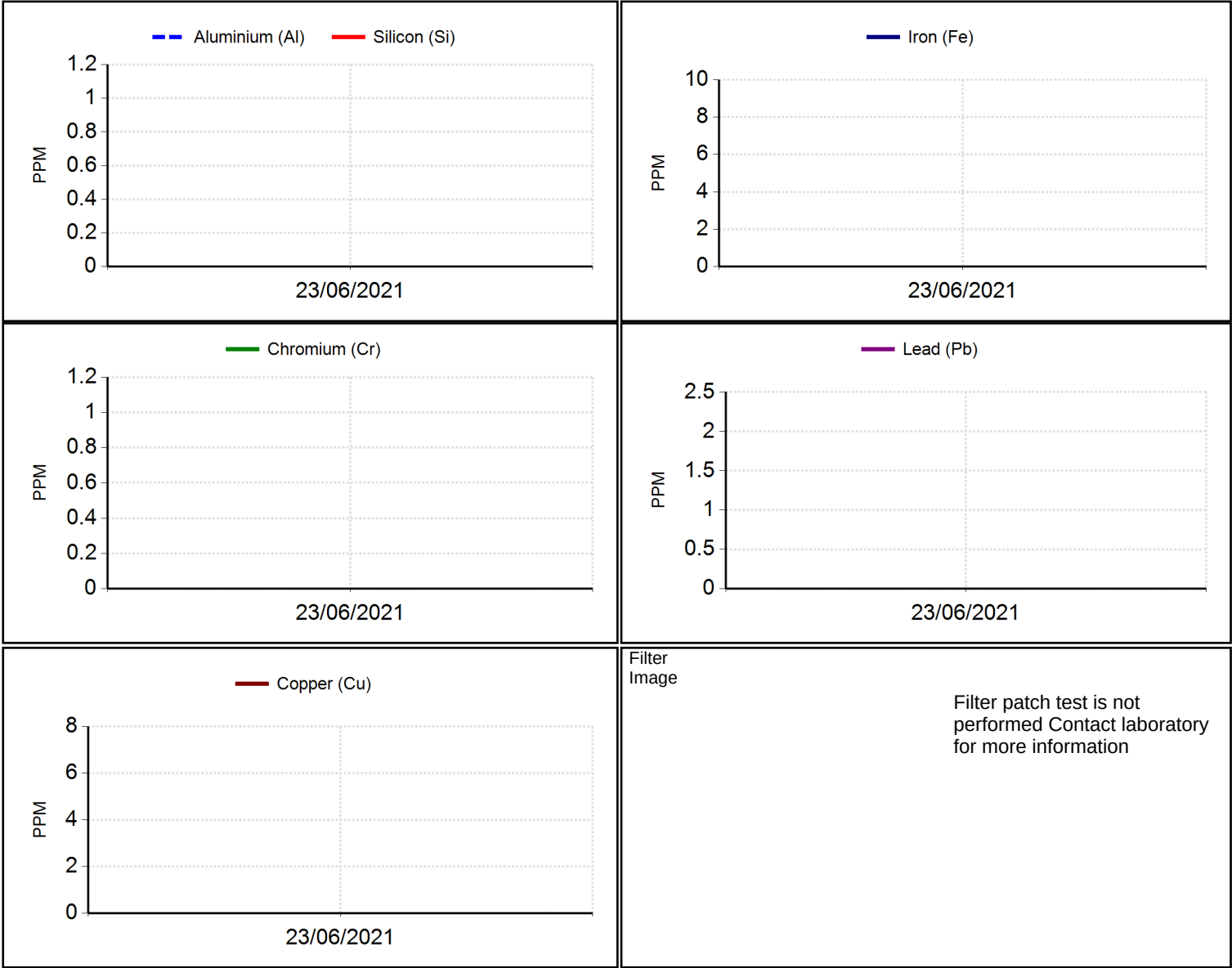
Please contact your local Hitachi outlet for further explanation on non-normal samples

As oil brand/grade/time on oil unknown, diagnosis is limited. However, All wear levels appear within acceptable limits for first sample. Silicon level (dirt/sealant material) satisfactory. Water content acceptable. Viscosity of oil appears typical of an ISO 46 grade. Action: Resample at next recommended interval to monitor and establish wear trend.

NATA Accreditation No. 825. Site No. 2024. *NATA accreditation covers the performance of this service.

PREVIOUS DIAGNOSIS

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Unit/Vehicle No.: 256
Unit Make: Hitachi
Unit Model: ZX490LCH-5A
Unit Serial No.: HCMJAE20V00061031
Unit/Vehicle Site:
Comp Name: Hydraulic System
Comp Make:
Comp Model:
Comp Serial No.:
System Capacity: 380.0 Ltrs

Customer Number
260401
 JAYDO CONSTRUCTION
 91 Boundry Road
 Curram Downs VIC 3201

SAMPLE STATUS								LEGEND  Severe  Abnormal  Caution  Normal	
LAB CHECK NO.		97808558	96532651	96384223	96238466				
TRACKING NUMBER		WO00139173	wo00084159	WO00079091					
ANALYSIS NO.		10205046106	10204811705	10204783894	10204754971				
SAMPLED DATE		02-Feb-22	28-Aug-20	02-Jul-20	05-May-20				
RECEIVED DATE		14-Feb-22	03-Sep-20	07-Jul-20	08-May-20				
REPORTED DATE		16-Feb-22	03-Sep-20	08-Jul-20	12-May-20				
MACHINE	Hrs	3025	981	679	475				
OIL	Hrs	3025	981	679	475				
OIL MAKE		Super EX46HN	Super EX46HN	Super EX46HN	Super EX46HN				
OIL GRADE		ISO 46	ISO 46	ISO 46	ISO 46				
OIL ADDED	Ltrs	0.0	20.0	0.0	0.0				
OIL CHANGED		No	No	No	No				
FILTER	Hrs	2044	981	679	475				
FILTER CHANGED		No	Yes	No	No	Guidelines			
Metals (ppm)						LEGEND (gl) Guidelines (fr) Fluid Reference (*) No reference			
*Aluminium (Al)		1	<1	<1	<1	0 - 9	(gl)		
*Copper (Cu)		6	5	5	4	0 - 19	(gl)		
*Chromium (Cr)		<1	<1	<1	<1	0 - 9	(gl)		
*Iron (Fe)		10	5	4	3	0 - 29	(gl)		
*Lead (Pb)		2	2	2	2	0 - 9	(gl)		
*Tin (Sn)		<1	<1	<1	<1	0 - 4	(gl)		
*Nickel (Ni)		<1	<1	<1	<1	0 - 4	(gl)		
Contaminants and Additives (ppm)									
*Silicon (Si)		1	1	1	1	0 - 9	(gl)		
Boron (B)		<5	<5	<5	<5	<5	(fr)		
*Sodium (Na)		<1	1	1	1	0 - 9	(gl)		
*Potassium (K)		<1	<1	1	<1	0 - 9	(gl)		
*Phosphorus (P)		314	317	341	342	621	(fr)		
*Molybdenum (Mo)		<1	<1	<1	<1	<1	(fr)		
*Magnesium (Mg)		9	14	17	20	<1	(fr)		
*Calcium (Ca)		25	8	8	9	1	(fr)		
*Zinc (Zn)		197	102	72	71	<1	(fr)		
Physical Tests									
Oxidation (Abs) (FTIR)		10.1	5.2	5.6	6.6	4.3	(fr)		
Viscosity (cSt,40°C)		44	44	44	46	46	(fr)		
Viscosity (cSt,100°C)		7.0	7.1	7.2	7.3	7.8	(fr)		
*Viscosity Index (ASTM D2270)		116	119	125	120	139	(fr)		
PQ Index		19	<10	<10	<10	0 - 19	(gl)		
*Water (D6304B 160°C) ppm		37	54	36	59	0 - 299	(gl)		
Particle Count									
*ISO 4406 Code		12/11/9	18/16/12	17/14/12	19/17/14	--	(fr)		
*ISO Clean 4 Micron (c)		12	18	17	19	0 - 22	(gl)		
*ISO Clean 6 Micron (c)		11	16	14	17	0 - 19	(gl)		
*ISO Clean 14 Micron (c)		9	12	12	14	0 - 14	(gl)		

DIAGNOSIS

Please contact your local Hitachi outlet for further explanation on non-normal samples

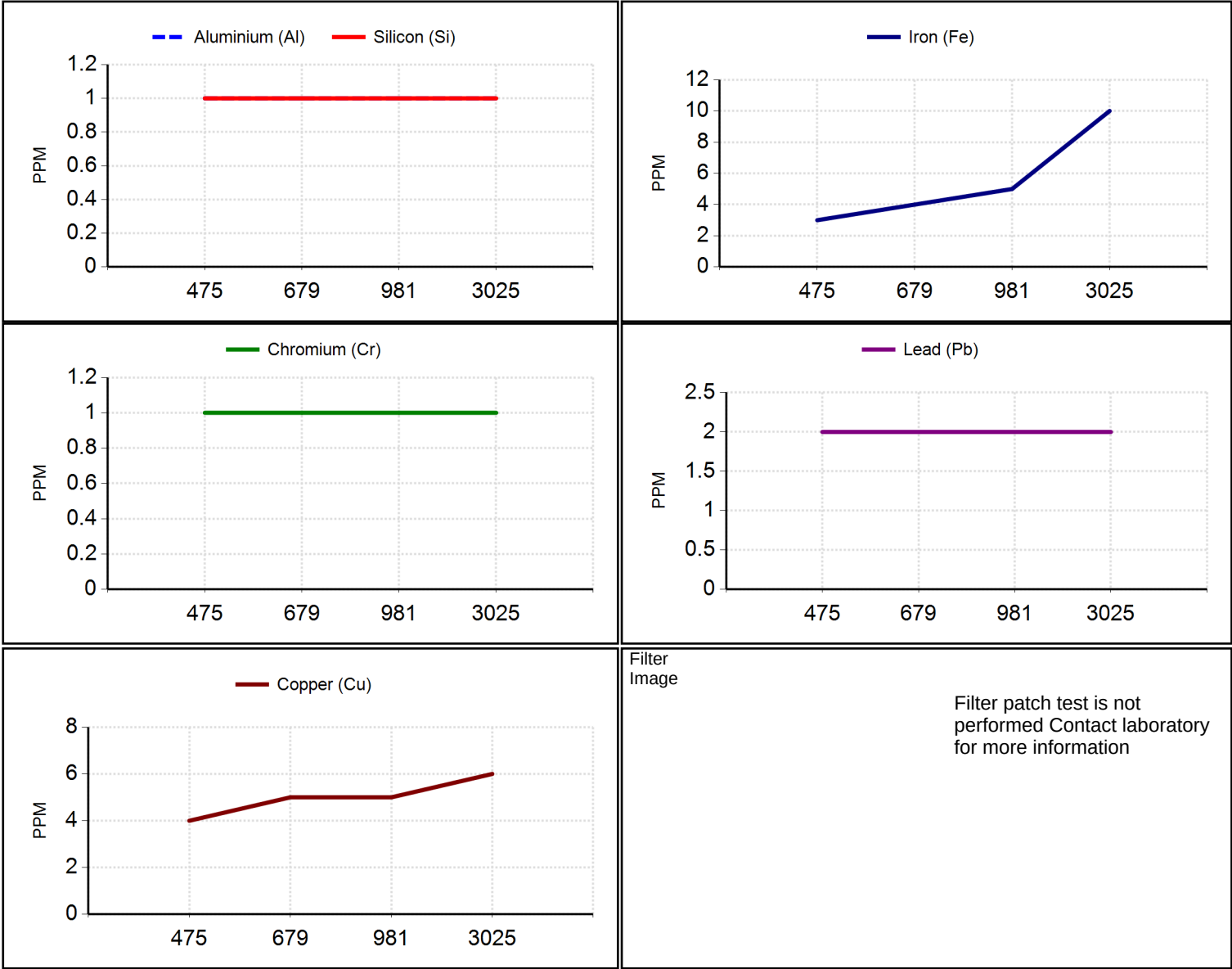
All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range, however additive package indicates a mixture of oils. Action: Resample next recommended service interval to further monitor.
 NATA Accreditation No. 825. Site No. 2024. *NATA accreditation covers the performance of this service.

PREVIOUS DIAGNOSIS

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range, however additive package indicates a different oil is in use.

Action: As filter(s) already changed, resample next recommended service interval to further monitor.

"This analysis report is dependent upon the accurate completion of the sample submission sheet and correct sampling techniques as advised. The analysis is intended as an aid only in predicting mechanical wear and should not be regarded as a substitute for proper servicing or mechanical inspection. The company does not accept any liability whatsoever in respect of any loss or damage (including loss of profits, economic or other consequential loss or damage) however caused which may arise directly, or indirectly, as a result of the matters referred to in this analysis report."



Unit/Vehicle No.: 256
Unit Make: Hitachi
Unit Model: ZX490LCH-5A
Unit Serial No.: HCMJAE20V00061031
Unit/Vehicle Site:
Comp Name: Hydraulic System
Comp Make:
Comp Model:
Comp Serial No.:
System Capacity: 380.0 Ltrs

Customer Number
260401
 JAYDO CONSTRUCTION
 91 Boundry Road
 Curram Downs VIC 3201

		Current Sample	Last Sample	Previous Sample	Previous Sample
SAMPLE STATUS					
LAB CHECK NO.		99303519	99113298	42742854	98483963
TRACKING NUMBER					
ANALYSIS NO.		10205292623	10205256885	10205209930	10205152866
SAMPLED DATE		24-Aug-23	16-May-23	11-Feb-23	15-Oct-22
RECEIVED DATE		05-Sep-23	20-Jun-23	08-Mar-23	26-Oct-22
REPORTED DATE		07-Sep-23	22-Jun-23	10-Mar-23	28-Oct-22
MACHINE	Hrs	5500	5000	4500	4000
OIL	Hrs	1500	1000	500	4000
OIL MAKE		Super EX46HN	Super EX46HN	Super EX46HN	Super EX46HN
OIL GRADE		ISO 46	ISO 46	ISO 46	ISO 46
OIL ADDED	Ltrs	0.0	0.0		0.0
OIL CHANGED		No	No	No	Yes
FILTER	Hrs	500	500		3019
FILTER CHANGED		No	Yes	No	Yes
Metals (ppm)					
*Aluminium (Al)		1	<1	<1	1
*Copper (Cu)		3	4	4	5
*Chromium (Cr)		<1	<1	<1	<1
*Iron (Fe)		8	8	7	11
*Lead (Pb)		1	1	1	2
*Tin (Sn)		<1	<1	<1	<1
*Nickel (Ni)		<1	<1	<1	<1
Contaminants and Additives (ppm)					
*Silicon (Si)		1	1	1	1
Boron (B)		<5	<5	<5	<5
*Sodium (Na)		<1	<1	<1	<1
*Potassium (K)		<1	<1	<1	3
*Phosphorus (P)		344	342	328	315
*Molybdenum (Mo)		<1	<1	<1	<1
*Magnesium (Mg)		3	2	4	7
*Calcium (Ca)		38	36	36	25
*Zinc (Zn)		351	340	323	223
Physical Tests					
Oxidation (Abs) (FTIR)		18.0	20.3	17.5	12.7
Viscosity (cSt,40°C)		43	43	44	44
Viscosity (cSt,100°C)		7.9	8.1	7.8	7.4
*Viscosity Index (ASTM D2270)		153	165	148	134
PQ Index		<10	<10	<10	<10
*Water (D6304B 160°C) ppm		54	60	23	173
Particle Count					
*ISO 4406 Code		18/14/11	18/14/10	19/15/7	18/15/10
*ISO Clean 4 Micron (c)		18	18	19	18
*ISO Clean 6 Micron (c)		14	14	15	15
*ISO Clean 14 Micron (c)		11	10	7	10



Normal

LEGEND	
	Severe
	Abnormal
	Caution
	Normal

Guidelines

LEGEND
 (gl) Guidelines
 (fr) Fluid Reference
 (*) No reference

DIAGNOSIS

Please contact your local Hitachi outlet for further explanation on non-normal samples

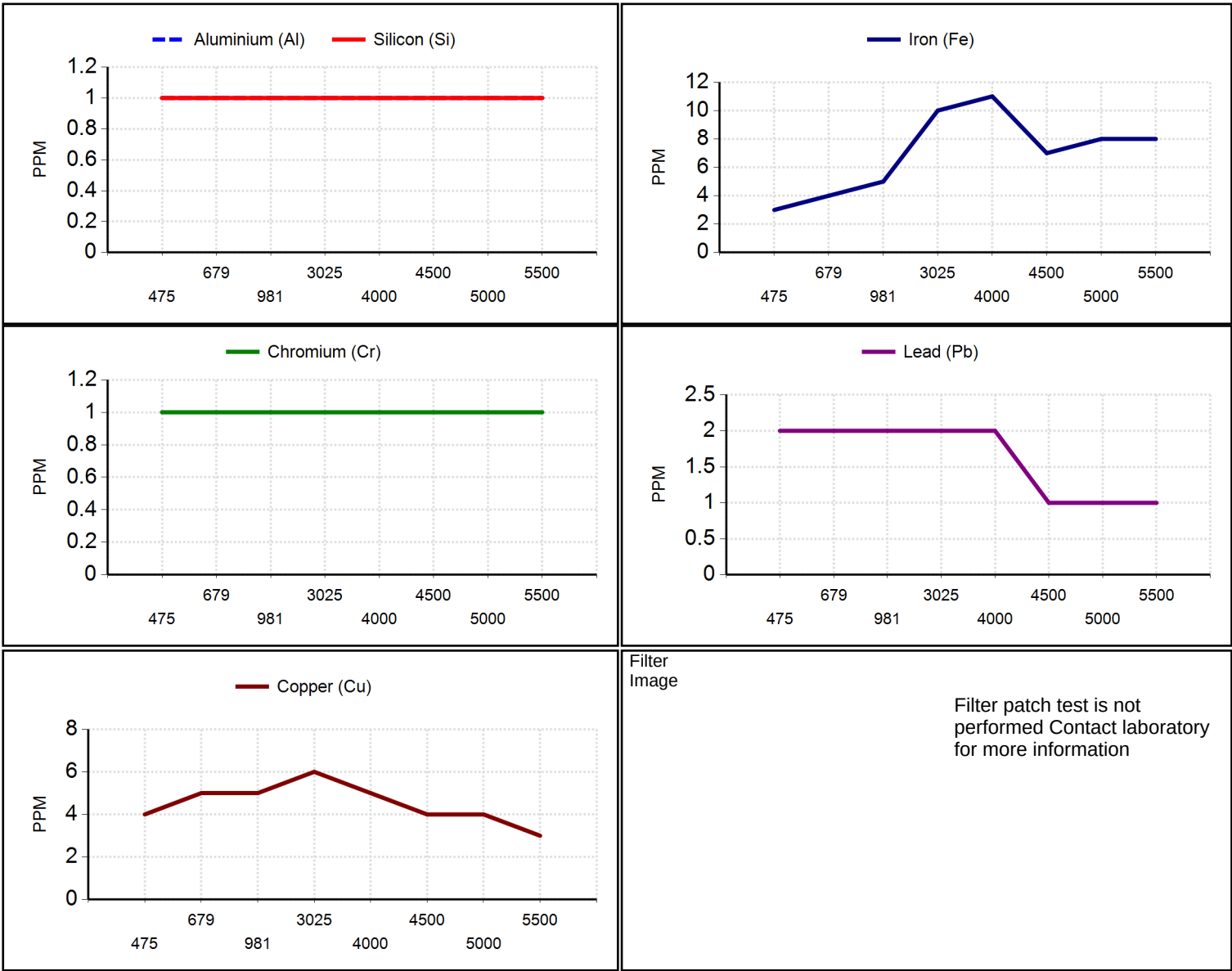
All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range, however additive package indicates a mixture of oils. Action: Resample next recommended service interval to further monitor.
 NATA Accreditation No. 825. Site No. 2024. *NATA accreditation covers the performance of this service.

PREVIOUS DIAGNOSIS

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range, however additive package indicates a mixture of oils.

Action: As filter(s) already changed, resample next service interval to further monitor.

"This analysis report is dependent upon the accurate completion of the sample submission sheet and correct sampling techniques as advised. The analysis is intended as an aid only in predicting mechanical wear and should not be regarded as a substitute for proper servicing or mechanical inspection. The company does not accept any liability whatsoever in respect of any loss or damage (including loss of profits, economic or other consequential loss or damage) however caused which may arise directly, or indirectly, as a result of the matters referred to in this analysis report."



Unit/Vehicle No.: 256
Unit Make: Hitachi
Unit Model: ZX490LCH-5A
Unit Serial No.: HCMJAE20V00061031
Unit/Vehicle Site:
Comp Name: Hydraulic System
Comp Make:
Comp Model:
Comp Serial No.:
System Capacity: 380.0 Ltrs

Customer Number
260401
 JAYDO CONSTRUCTION
 91 Boundry Road
 Curram Downs VIC 3201

SAMPLE STATUS		Current Sample		Last Sample		Previous Sample		Normal	
									
LAB CHECK NO.		101624395		101160529		99490085		99303519	
TRACKING NUMBER									
ANALYSIS NO.		10205663101		10205587708		10004031863		10205292623	
SAMPLED DATE		04-Oct-25		24-May-25		28-Oct-23		24-Aug-23	
RECEIVED DATE		10-Nov-25		11-Jun-25		06-Nov-23		05-Sep-23	
REPORTED DATE		12-Nov-25		12-Jun-25		06-Nov-23		07-Sep-23	
MACHINE	Hrs	8500		8000		6000		5500	
OIL	Hrs	4500		4000		2000		1500	
OIL MAKE		Super EX46HN		Super EX46HN		Super EX46HN		Super EX46HN	
OIL GRADE		ISO 46		ISO 46		ISO 46		ISO 46	
OIL ADDED	Ltrs	0.0		0.0		0.0		0.0	
OIL CHANGED		No		No		No		No	
FILTER	Hrs	500		2000		1000		500	
FILTER CHANGED		No		Yes		Yes		No	
Metals (ppm)									
*Aluminium (Al)		1		1		<1		1	
*Copper (Cu)		8		8		3		3	
*Chromium (Cr)		<1		<1		<1		<1	
*Iron (Fe)		14		15		8		8	
*Lead (Pb)		1		1		<1		1	
*Tin (Sn)		<1		<1		<1		<1	
*Nickel (Ni)		<1		<1		<1		<1	
Contaminants and Additives (ppm)									
*Silicon (Si)		2		2		1		1	
Boron (B)		<5		<5		<5		<5	
*Sodium (Na)		<1		<1		1		<1	
*Potassium (K)		<1		1		<1		<1	
*Phosphorus (P)		319		341		337		344	
*Molybdenum (Mo)		<1		<1		<1		<1	
*Magnesium (Mg)		2		2		3		3	
*Calcium (Ca)		53		56		68		38	
*Zinc (Zn)		320		331		342		351	
Physical Tests									
Oxidation (Abs) (FTIR)		17.0		18.2		15.0		18.0	
Viscosity (cSt,40°C)		43		44		44		43	
Viscosity (cSt,100°C)		7.7		7.8		8.0		7.9	
*Viscosity Index (ASTM D2270)		151		152		156		153	
PQ Index		<10		<10		<10		<10	
*Water (D6304B 160°C) ppm		<10		99		80		54	
Particle Count									
*ISO 4406 Code		19/17/14		20/18/15		19/16/10		18/14/11	
*ISO Clean 4 Micron (c)		19		20		19		18	
*ISO Clean 6 Micron (c)		17		18		16		14	
*ISO Clean 14 Micron (c)		14		15		10		11	

 Severe

 Abnormal

 Caution

 Normal

LEGEND
(gl) Guidelines
(fr) Fluid Reference
(*) No reference

DIAGNOSIS

Please contact your local Hitachi outlet for further explanation on non-normal samples

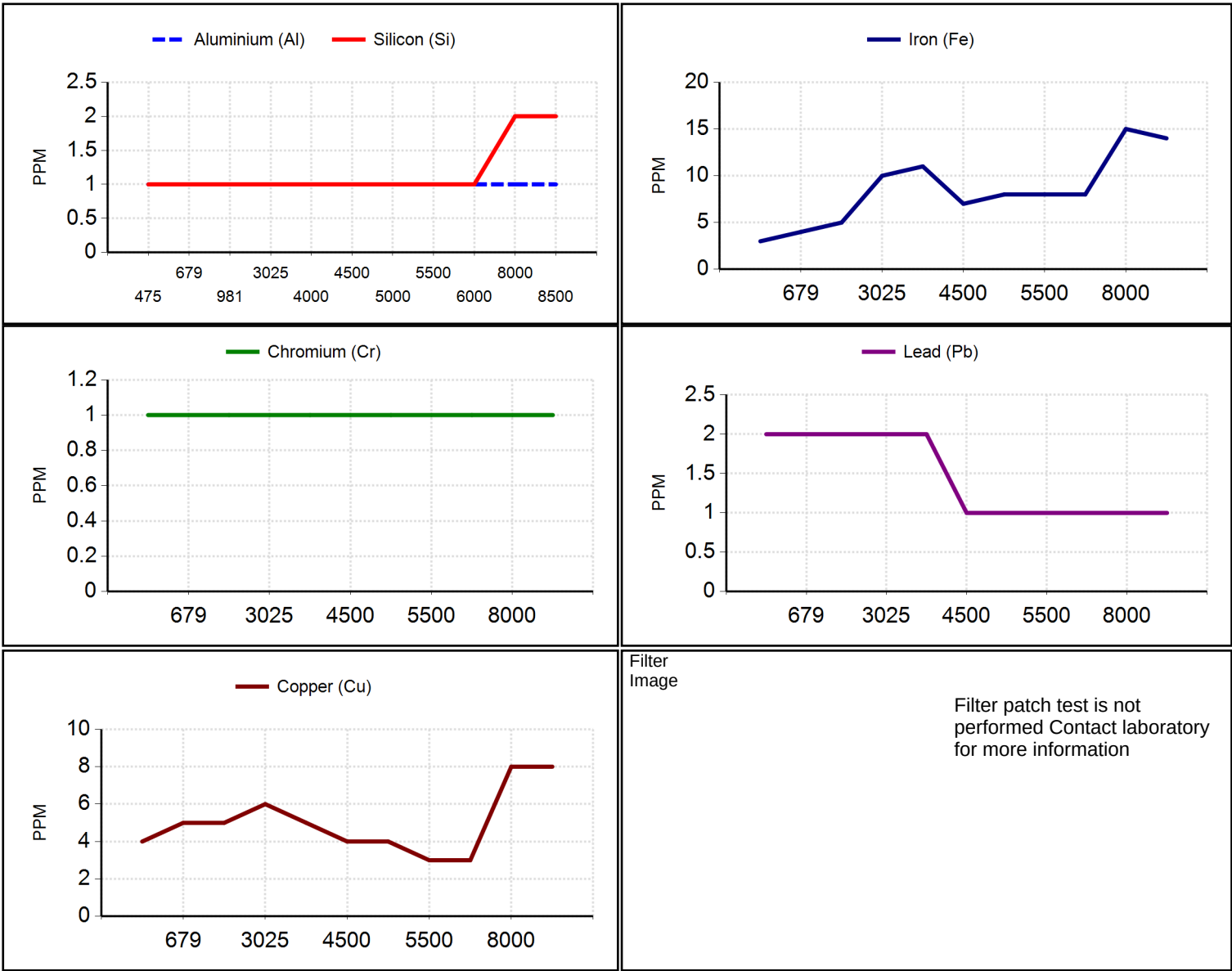
All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range, however additive package indicates a mixture of oils. Action: Resample next recommended service interval to further monitor.
NATA Accreditation No. 825. Site No. 2024. *NATA accreditation covers the performance of this service.

PREVIOUS DIAGNOSIS

Wear levels lower than 8 micron appear satisfactory. However, Oil cleanliness rating exceeds considered recommended limit. Infra-red analysis indicates oxidation level elevated. Viscosity within specified operating range, however additive package indicates a mixture of oils.

Action: Check for possible increase in operating temperature. As filters already changed and if filter debris was acceptable, advise check sampling procedure for possible source of contamination. Resample at a reduced service interval to further monitor.

"This analysis report is dependent upon the accurate completion of the sample submission sheet and correct sampling techniques as advised. The analysis is intended as an aid only in predicting mechanical wear and should not be regarded as a substitute for proper servicing or mechanical inspection. The company does not accept any liability whatsoever in respect of any loss or damage (including loss of profits, economic or other consequential loss or damage) however caused which may arise directly, or indirectly, as a result of the matters referred to in this analysis report."



Unit/Vehicle No.: U256
Unit Make: Hitachi
Unit Model: ZX490-5
Unit Serial No.:
Unit/Vehicle Site: Plumpton
Comp Name: Left Final Drive
Comp Make:
Comp Model:
Comp Serial No.:
System Capacity: 1.0 Ltrs

Customer Number
260401
 JAYDO CONSTRUCTION
 91 Boundry Road
 Curram Downs VIC 3201

	Current Sample	Last Sample	Previous Sample	Previous Sample
SAMPLE STATUS				
LAB CHECK NO.	42383841	42383844		
TRACKING NUMBER				
ANALYSIS NO.	10204948443	10204947777		
SAMPLED DATE	25-Jun-21	23-Jun-21		
RECEIVED DATE	28-Jun-21	25-Jun-21		
REPORTED DATE	29-Jun-21	28-Jun-21		
MACHINE	Hrs			
OIL	Hrs			
OIL MAKE	500	GL-4		
OIL GRADE	SAE 90	Unidentified		
OIL ADDED	Ltrs	-		
OIL CHANGED	Yes			
FILTER	Hrs			
FILTER CHANGED				
Metals (ppm)				
*Aluminium (Al)	9	1		
*Copper (Cu)	<1	<1		
*Chromium (Cr)	4	<1		
*Iron (Fe)	160	35		
*Lead (Pb)	<1	<1		
*Tin (Sn)	2	<1		
*Nickel (Ni)	<1	<1		
Contaminants and Additives (ppm)				
*Silicon (Si)	37	6		
Boron (B)	9	23		
*Sodium (Na)	1	2		
*Potassium (K)	4	<1		
*Phosphorus (P)	358	356		
*Molybdenum (Mo)	<1	<1		
*Magnesium (Mg)	1	<1		
*Calcium (Ca)	5	7		
*Zinc (Zn)	10	2		
Physical Tests				
Water (%) (FTIR)	<0.1	<0.1		
Viscosity (cSt,40°C)	202	201		
PQ Index	94	19		
Oxidation (Abs) (FTIR)	2.3	2.1		

Normal



LEGEND

-  Severe
-  Abnormal
-  Caution
-  Normal

Guidelines

0 - 18	(gl)
0 - 50	(gl)
0 - 4	(gl)
0 - 500	(gl)
0 - 35	(gl)
0 - 18	(gl)
0 - 4	(gl)
0 - 50	(gl)
<5	(fr)
0 - 100	(gl)
0 - 50	(gl)
319	(fr)
<1	(fr)
<1	(fr)
3	(fr)
4	(fr)
0 - 0.10	(gl)
195	(fr)
0 - 500	(gl)
4.5	(fr)

LEGEND

(gl) Guidelines
(fr) Fluid Reference
(*) No reference

DIAGNOSIS Please contact your local Hitachi outlet for further explanation on non-normal samples

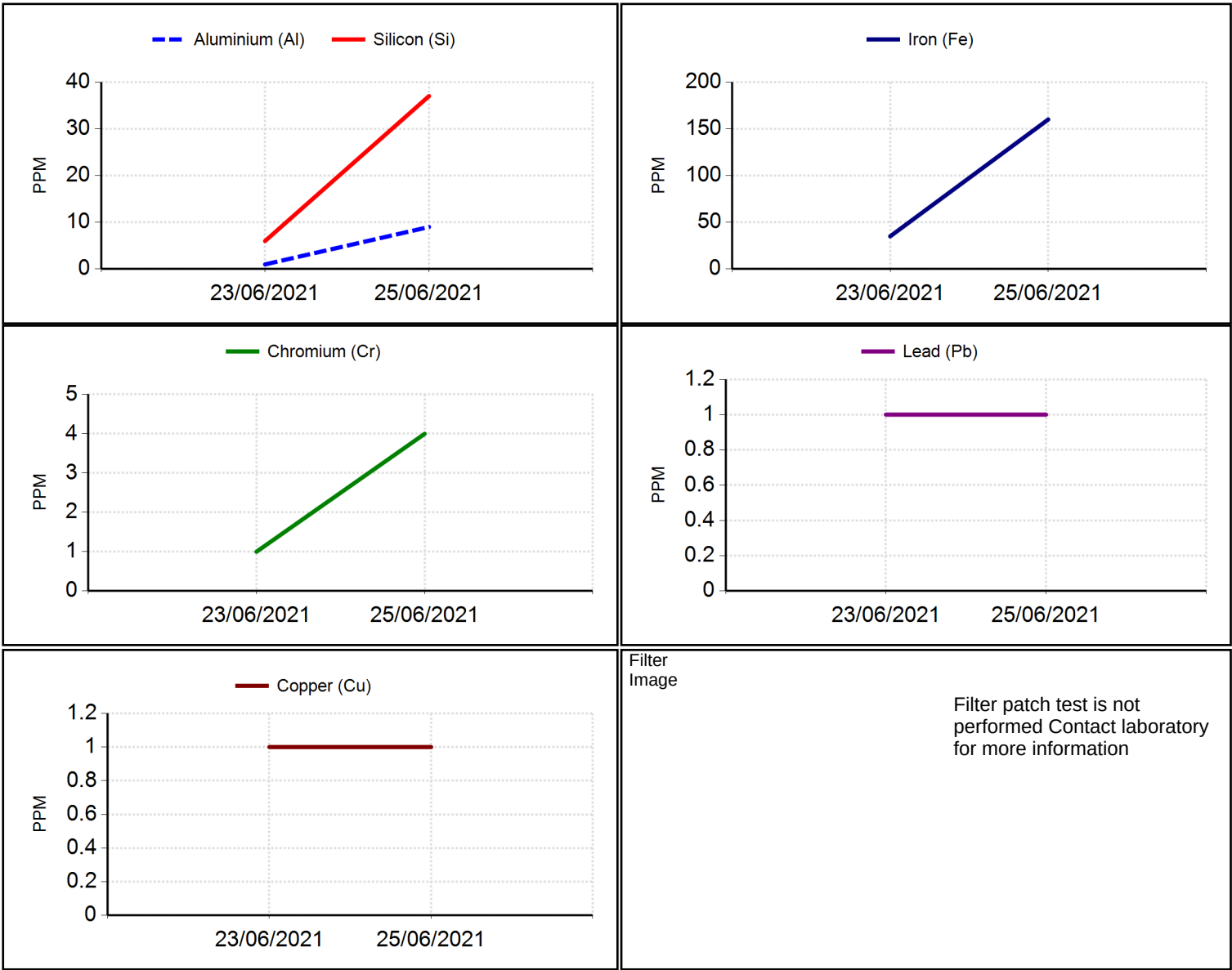
All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range. Action: As oil already changed, resample next recommended service interval to further monitor.
 NATA Accreditation No. 825. Site No. 2024. *NATA accreditation covers the performance of this service.

PREVIOUS DIAGNOSIS

As oil brand/grade/time on oil unknown, diagnosis is limited. However, All wear levels appear within acceptable limits for first sample. Silicon level (dirt/sealant material) satisfactory. Water content acceptable. Please check recorded viscosity against requirements.

Action: Resample at next recommended interval to monitor and establish wear trend.

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Unit/Vehicle No.: 256
Unit Make: Hitachi
Unit Model: ZX490LCH-5A
Unit Serial No.: HCMJAE20V00061031
Unit/Vehicle Site:
Comp Name: Travel Transmission L/H
Comp Make:
Comp Model:
Comp Serial No.:
System Capacity: 7.0 Ltrs

Customer Number
260401
 JAYDO CONSTRUCTION
 91 Boundry Road
 Curram Downs VIC 3201

SAMPLE STATUS

Current Sample Last Sample Previous Sample Previous Sample



Abnormal



LEGEND	
	Severe
	Abnormal
	Caution
	Normal

LAB CHECK NO.	98483966	97808561	96532654	96238469
TRACKING NUMBER		WO00139173	wo00084159	
ANALYSIS NO.	10205155376	10205046141	10204811863	10204756526
SAMPLED DATE	15-Oct-22	02-Feb-22	28-Aug-20	05-May-20
RECEIVED DATE	01-Nov-22	14-Feb-22	03-Sep-20	12-May-20
REPORTED DATE	02-Nov-22	16-Feb-22	04-Sep-20	14-May-20
MACHINE	Hrs 4000	3025	981	475
OIL	Hrs 975	2044	981	475
OIL MAKE	GL-4	GL-4	GL-4	GL-4
OIL GRADE	SAE 90	SAE 90	SAE 90	SAE 90
OIL ADDED	Ltrs 0.0	0.0	0.0	0.0
OIL CHANGED	Yes	Yes	Yes	No
FILTER	Hrs Not Applicable			0
FILTER CHANGED	Yes	No	No	No

Metals (ppm)

*Aluminium (Al)	17	21	2	2	0 - 69 (gl)
*Copper (Cu)	<1	1	<1	<1	0 - 9 (gl)
*Chromium (Cr)	4	5	4	3	0 - 9 (gl)
*Iron (Fe)	157	189	132	124	0 - 699 (gl)
*Lead (Pb)	<1	1	<1	<1	0 - 4 (gl)
*Tin (Sn)	2	2	2	1	0 - 4 (gl)
*Nickel (Ni)	<1	<1	<1	<1	0 - 4 (gl)

Contaminants and Additives (ppm)

*Silicon (Si)	62	79	13	11	0 - 289 (gl)
Boron (B)	58	<5	40	56	<5 (fr)
*Sodium (Na)	2	1	<1	<1	<1 (fr)
*Potassium (K)	2	4	8	7	1 (fr)
*Phosphorus (P)	677	515	429	458	319 (fr)
*Molybdenum (Mo)	<1	1	<1	<1	<1 (fr)
*Magnesium (Mg)	3	3	1	1	<1 (fr)
*Calcium (Ca)	5	8	5	6	3 (fr)
*Zinc (Zn)	3	10	13	10	4 (fr)

Physical Tests

Water (%) (FTIR)	<0.1	<0.1	<0.1	<0.1	0 - 0.09 (gl)
Viscosity (cSt,40°C)	144	132	192	186	195 (fr)
PQ Index	117	127	102	93	0 - 299 (gl)
Oxidation (Abs) (FTIR)	12.7	7.4	4.4	4.9	0 - 14.90 (gl)

Guidelines

LEGEND
 (gl) Guidelines
 (fr) Fluid Reference
 (*) No reference

DIAGNOSIS

Please contact your local Hitachi outlet for further explanation on non-normal samples

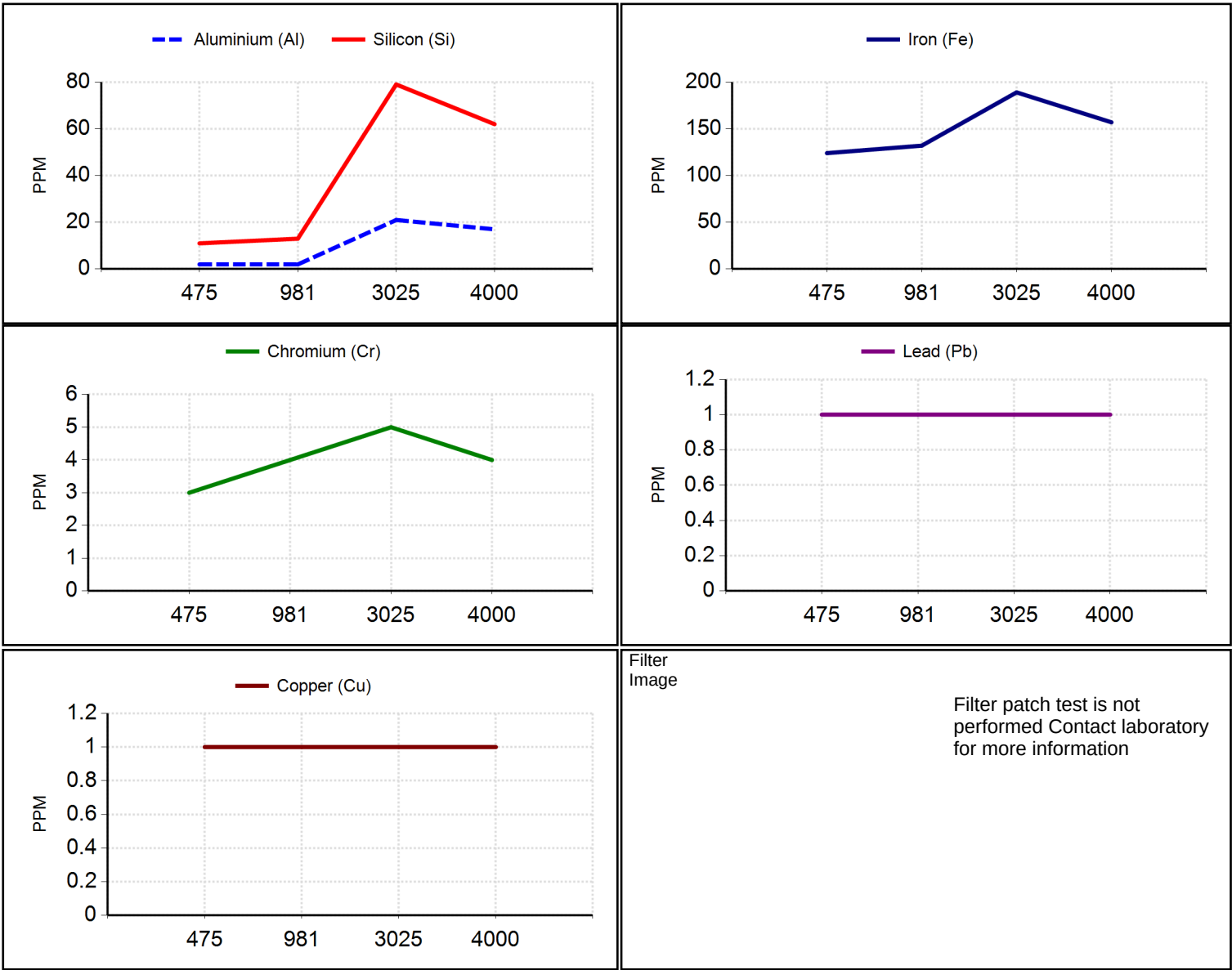
All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity low for specified oil grade. Action: Please confirm oil type and grade used in this component. As oil already changed, resample next recommended service interval to further monitor.
 NATA Accreditation No. 825. Site No. 2024. *NATA accreditation covers the performance of this service.

PREVIOUS DIAGNOSIS

All wear rates normal. Trace dirt (alumina + silica) is noted. Other contaminant levels acceptable. Viscosity low for specified oil grade.

Action: Check all dirt access points as a precaution. As oil already changed, resample next recommended service interval to further monitor.

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Unit/Vehicle No.: 256
Unit Make: Hitachi
Unit Model: ZX490LCH-5A
Unit Serial No.: HCMJAE20V00061031
Unit/Vehicle Site:

Comp Name: Travel Transmission L/H
Comp Make:
Comp Model:
Comp Serial No.:
System Capacity: 7.0 Ltrs

Customer Number
260401
 JAYDO CONSTRUCTION
 91 Boundry Road
 Curram Downs VIC 3201

SAMPLE STATUS

Current Sample Last Sample Previous Sample Previous Sample



Abnormal



LEGEND	
	Severe
	Abnormal
	Caution
	Normal

LAB CHECK NO.	99490088	99303522	99113301	42717169
TRACKING NUMBER				
ANALYSIS NO.	10205322825	10205292633	10003976366	10205209950
SAMPLED DATE	28-Oct-23	24-Aug-23	16-May-23	11-Feb-23
RECEIVED DATE	07-Nov-23	05-Sep-23	19-Jun-23	08-Mar-23
REPORTED DATE	08-Nov-23	08-Sep-23	19-Jun-23	10-Mar-23
MACHINE	Hrs 6000	5500	5000	4500
OIL	Hrs 500	500	500	500
OIL MAKE	GL-4	GL-4	GL-4	GL-4
OIL GRADE	SAE 90	SAE 90	SAE 90	SAE 90
OIL ADDED	Ltrs 0.0	0.0	0.0	
OIL CHANGED	Yes	Yes	Yes	Yes
FILTER	Hrs Not Applicable			
FILTER CHANGED	No	No	No	

Metals (ppm)

*Aluminium (Al)	8	17	26	37	0 - 69 (gl)
*Copper (Cu)	<1	<1	1	1	0 - 9 (gl)
*Chromium (Cr)	2	3	3	5	0 - 9 (gl)
*Iron (Fe)	129	242	292	338	0 - 699 (gl)
*Lead (Pb)	<1	<1	<1	<1	0 - 4 (gl)
*Tin (Sn)	1	1	1	2	0 - 4 (gl)
*Nickel (Ni)	<1	<1	<1	<1	0 - 4 (gl)

Contaminants and Additives (ppm)

*Silicon (Si)	34	68	97	132	0 - 289 (gl)
Boron (B)	7	8	16	79	<5 (fr)
*Sodium (Na)	<1	<1	<1	1	<1 (fr)
*Potassium (K)	2	2	4	6	1 (fr)
*Phosphorus (P)	319	322	382	793	319 (fr)
*Molybdenum (Mo)	<1	<1	<1	<1	<1 (fr)
*Magnesium (Mg)	2	2	2	5	<1 (fr)
*Calcium (Ca)	4	3	4	8	3 (fr)
*Zinc (Zn)	2	2	3	7	4 (fr)

Physical Tests

Water (%) (FTIR)	<0.1	<0.1	<0.1	<0.1	0 - 0.09 (gl)
Viscosity (cSt,40°C)	127	135	182	137	195 (fr)
PQ Index	64	225	439	298	0 - 299 (gl)
Oxidation (Abs) (FTIR)	7.5	7.7	2.9	9.3	0 - 14.90 (gl)

Guidelines

LEGEND
 (gl) Guidelines
 (fr) Fluid Reference
 (*) No reference

DIAGNOSIS

Please contact your local Hitachi outlet for further explanation on non-normal samples

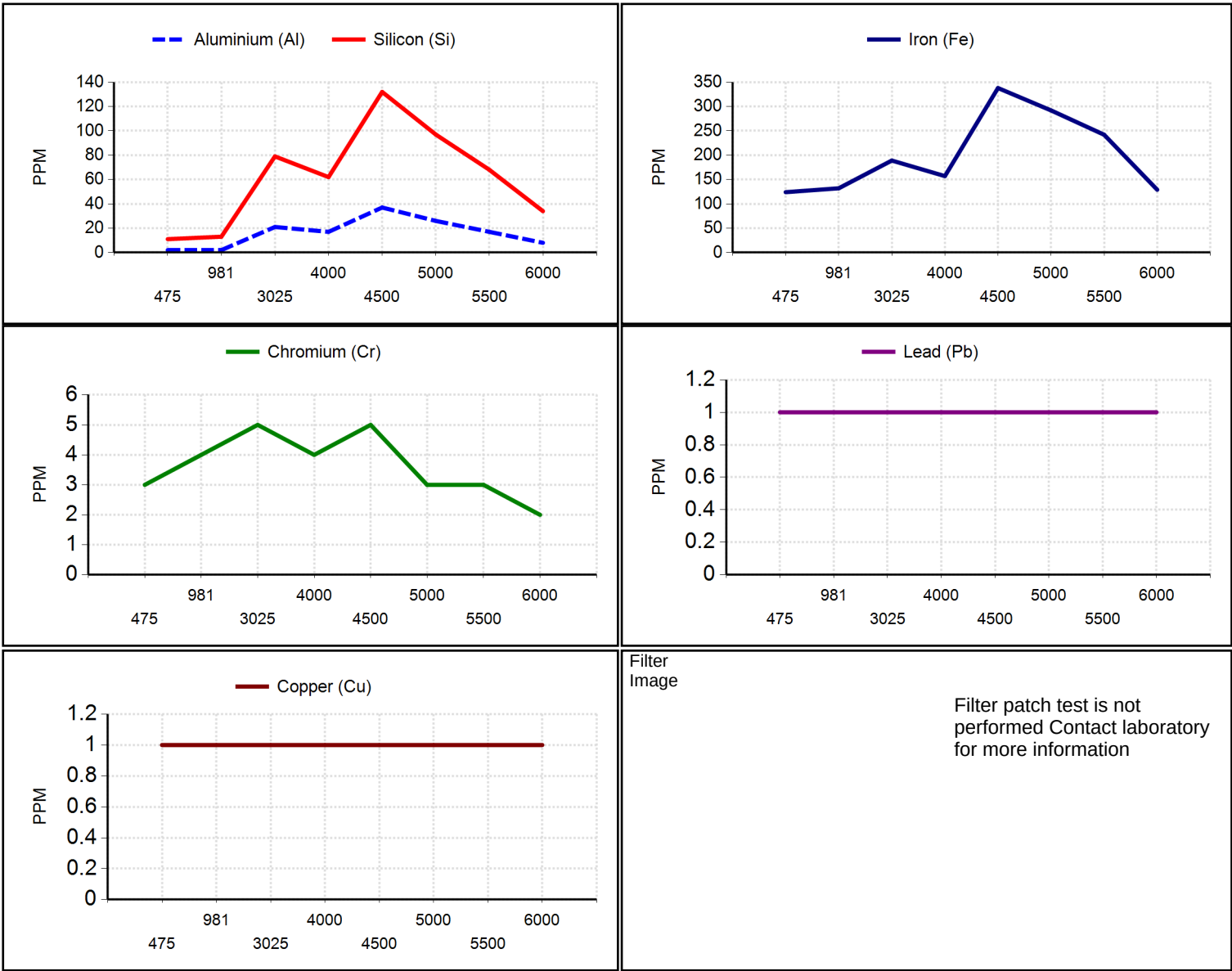
All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity low for specified oil grade. Action: Please confirm oil type and grade used in this component. As oil already changed, resample at a reduced service interval to further monitor.
 NATA Accreditation No. 825. Site No. 2024. *NATA accreditation covers the performance of this service.

PREVIOUS DIAGNOSIS

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity low for specified oil grade.

Action: Please confirm oil grade used in this component. As oil already changed, resample next recommended service interval to further monitor.

"This analysis report is dependent upon the accurate completion of the sample submission sheet and correct sampling techniques as advised. The analysis is intended as an aid only in predicting mechanical wear and should not be regarded as a substitute for proper servicing or mechanical inspection. The company does not accept any liability whatsoever in respect of any loss or damage (including loss of profits, economic or other consequential loss or damage) however caused which may arise directly, or indirectly, as a result of the matters referred to in this analysis report."



Unit/Vehicle No.: 256
Unit Make: Hitachi
Unit Model: ZX490LCH-5A
Unit Serial No.: HCMJAE20V00061031
Unit/Vehicle Site:

Comp Name: Swing Transmission L/H
Comp Make:
Comp Model:
Comp Serial No.:
System Capacity: 7.0 Ltrs

Customer Number
260401
 JAYDO CONSTRUCTION
 91 Boundry Road
 Curram Downs VIC 3201

SAMPLE STATUS						 Normal	
LAB CHECK NO.		98483964	97808559	96532652	96238467	LEGEND Severe Abnormal Caution Normal	
TRACKING NUMBER			WO00139173	wo00084159			
ANALYSIS NO.		10205155371	10205046116	10204811864	10204755026		
SAMPLED DATE		15-Oct-22	02-Feb-22	28-Aug-20	05-May-20		
RECEIVED DATE		01-Nov-22	14-Feb-22	03-Sep-20	08-May-20		
REPORTED DATE		02-Nov-22	16-Feb-22	04-Sep-20	12-May-20		
MACHINE	Hrs	4000	3025	981	475		
OIL	Hrs	975	2044	981	475		
OIL MAKE		GL-4	GL-4	GL-4	GL-4		
OIL GRADE		SAE 90	SAE 90	SAE 90	SAE 90		
OIL ADDED	Ltrs	0.0	0.0	0.0	0.0		
OIL CHANGED		Yes	Yes	Yes	No		
FILTER	Hrs	Not Applicable			0		
FILTER CHANGED		Yes	No	No	No		
Metals (ppm)						LEGEND (gl) Guidelines (fr) Fluid Reference (*) No reference	
*Aluminium (Al)		<1	<1	1	1	0 - 9	(gl)
*Copper (Cu)		<1	1	<1	<1	0 - 14	(gl)
*Chromium (Cr)		<1	<1	1	1	0 - 9	(gl)
*Iron (Fe)		25	6	45	45	0 - 159	(gl)
*Lead (Pb)		<1	<1	<1	<1	0 - 9	(gl)
*Tin (Sn)		<1	<1	<1	<1	0 - 4	(gl)
*Nickel (Ni)		<1	<1	<1	<1	0 - 4	(gl)
Contaminants and Additives (ppm)							
*Silicon (Si)		3	3	10	11	0 - 34	(gl)
Boron (B)		6	<5	59	73	<5	(fr)
*Sodium (Na)		1	1	1	<1	<1	(fr)
*Potassium (K)		<1	<1	1	<1	1	(fr)
*Phosphorus (P)		284	263	404	472	319	(fr)
*Molybdenum (Mo)		<1	<1	<1	<1	<1	(fr)
*Magnesium (Mg)		<1	<1	<1	<1	<1	(fr)
*Calcium (Ca)		2	6	10	14	3	(fr)
*Zinc (Zn)		1	36	2	5	4	(fr)
Physical Tests							
Water (%) (FTIR)		<0.1	<0.1	<0.1	<0.1	0 - 0.09	(gl)
Viscosity (cSt,40°C)		209	205	192	187	195	(fr)
PQ Index		19	<10	23	23	0 - 199	(gl)
Oxidation (Abs) (FTIR)		3.1	10.4	4.1	4.0	1 - 14.90	(gl)

DIAGNOSIS

Please contact your local Hitachi outlet for further explanation on non-normal samples

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range. Action: As oil already changed, resample next recommended service interval to further monitor.

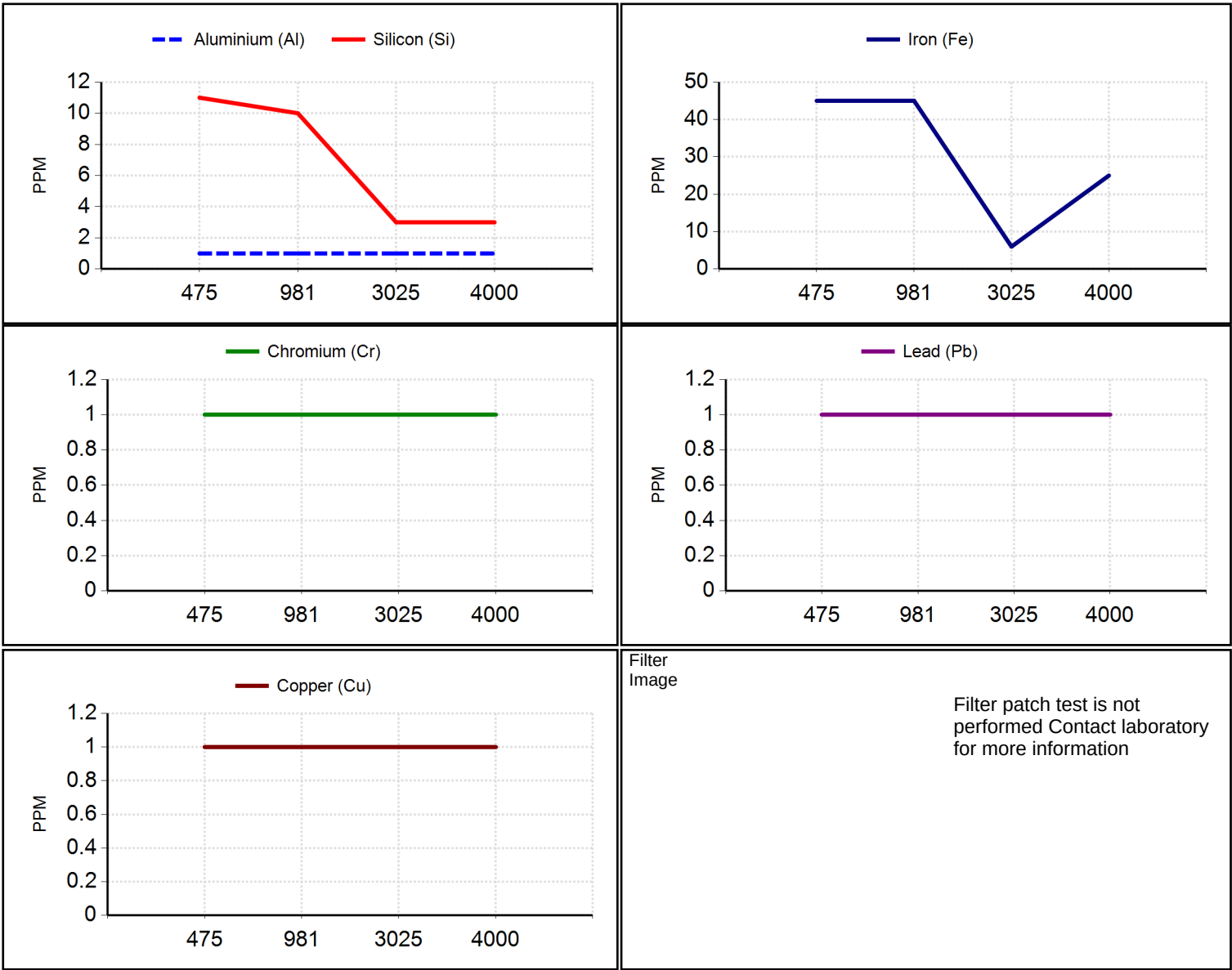
NATA Accreditation No. 825. Site No. 2024. *NATA accreditation covers the performance of this service.

PREVIOUS DIAGNOSIS

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range.

Action: As oil already changed, resample next recommended service interval to further monitor.

"This analysis report is dependent upon the accurate completion of the sample submission sheet and correct sampling techniques as advised. The analysis is intended as an aid only in predicting mechanical wear and should not be regarded as a substitute for proper servicing or mechanical inspection. The company does not accept any liability whatsoever in respect of any loss or damage (including loss of profits, economic or other consequential loss or damage) however caused which may arise directly, or indirectly, as a result of the matters referred to in this analysis report."



Unit/Vehicle No.: 256
Unit Make: Hitachi
Unit Model: ZX490LCH-5A
Unit Serial No.: HCMJAE20V00061031
Unit/Vehicle Site:

Comp Name: Swing Transmission L/H
Comp Make:
Comp Model:
Comp Serial No.:
System Capacity: 7.0 Ltrs

Customer Number
260401
 JAYDO CONSTRUCTION
 91 Boundry Road
 Curram Downs VIC 3201

SAMPLE STATUS

Current Sample

Last Sample

Previous Sample

Previous Sample

Abnormal



LEGEND	
	Severe
	Abnormal
	Caution
	Normal

LAB CHECK NO.
 TRACKING NUMBER
 ANALYSIS NO.

99490086 99303520 99113299 42758381
 10004031811 10205292651 10205256901 10205209984

SAMPLED DATE
 RECEIVED DATE
 REPORTED DATE

28-Oct-23 24-Aug-23 16-May-23 11-Feb-23
 06-Nov-23 05-Sep-23 20-Jun-23 08-Mar-23
 06-Nov-23 08-Sep-23 21-Jun-23 10-Mar-23

MACHINE Hrs
 OIL Hrs
 OIL MAKE
 OIL GRADE
 OIL ADDED Ltrs
 OIL CHANGED
 FILTER Hrs
 FILTER CHANGED

6000 5500 5000 4500
 1000 500 1000 500
 GL-4 GL-4 GL-4 GL-4
 SAE 90 SAE 90 SAE 90 SAE 90
 0.0 0.0 0.0
 Yes No Yes No
 Not Applicable No No No

Metals (ppm)

Aluminium (Al)
 Copper (Cu)
 Chromium (Cr)
 Iron (Fe)
 Lead (Pb)
 Tin (Sn)
 Nickel (Ni)

<1 <1 1 <1
 <1 <1 1 <1
 <1 <1 1 <1
 28 25 75 32
 <1 <1 <1 <1
 <1 <1 1 <1
 <1 <1 <1 <1

0 - 9 (gl)
 0 - 14 (gl)
 0 - 9 (gl)
 0 - 159 (gl)
 0 - 9 (gl)
 0 - 4 (gl)
 0 - 4 (gl)

Contaminants and Additives (ppm)

Silicon (Si)
 Boron (B)
 Sodium (Na)
 Potassium (K)
 Phosphorus (P)
 Molybdenum (Mo)
 Magnesium (Mg)
 Calcium (Ca)
 Zinc (Zn)

6 6 8 5
 29 20 85 80
 <1 <1 1 <1
 <1 <1 <1 <1
 376 419 712 632
 <1 <1 <1 <1
 <1 <1 <1 <1
 1 1 2 2
 <1 1 1 1

0 - 34 (gl)
 <5 (fr)
 <1 (fr)
 1 (fr)
 319 (fr)
 <1 (fr)
 <1 (fr)
 3 (fr)
 4 (fr)

Physical Tests

Water (%) (FTIR)
 Viscosity (cSt,40°C)
 PQ Index
 Oxidation (Abs) (FTIR)

<0.1 <0.1 <0.1 <0.1
 135 133 158 160
 10 11 26 14
 6.5 8.0 7.2 6.6

0 - 0.09 (gl)
 195 (fr)
 0 - 199 (gl)
 1 - 14.90 (gl)

Guidelines

LEGEND
 (gl) Guidelines
 (fr) Fluid Reference
 (*) No reference

DIAGNOSIS

Please contact your local Hitachi outlet for further explanation on non-normal samples

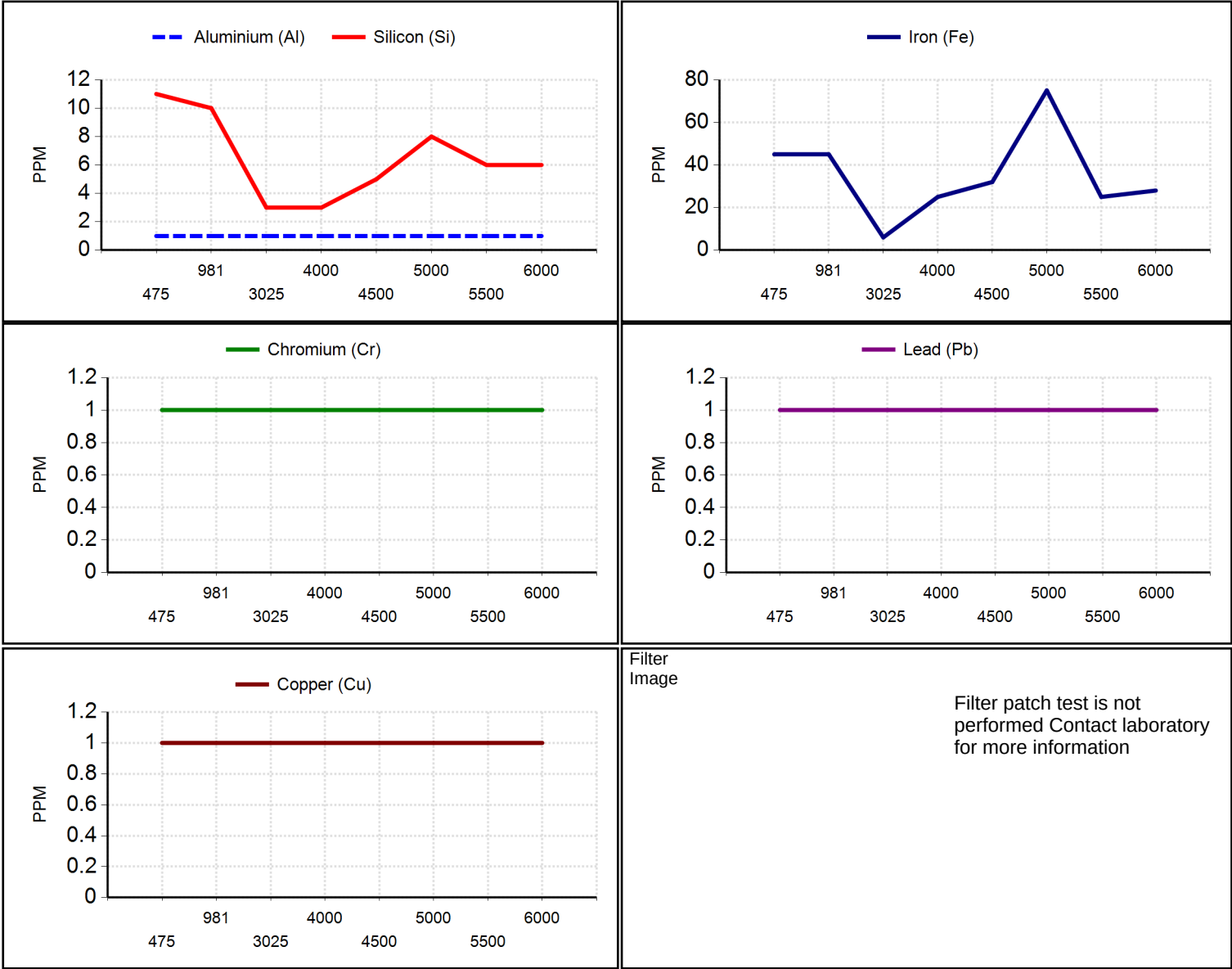
All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity low for specified oil grade. Action: As oil already changed, resample next recommended service interval to further monitor.

PREVIOUS DIAGNOSIS

All wear rates normal. Abrasive and other contaminant levels are acceptable. Results indicate a mixture of oils. Viscosity low for specified oil grade.

Action: Please confirm oil type and grade used in this component. Resample next recommended service interval to further monitor.

"This analysis report is dependent upon the accurate completion of the sample submission sheet and correct sampling techniques as advised. The analysis is intended as an aid only in predicting mechanical wear and should not be regarded as a substitute for proper servicing or mechanical inspection. The company does not accept any liability whatsoever in respect of any loss or damage (including loss of profits, economic or other consequential loss or damage) however caused which may arise directly, or indirectly, as a result of the matters referred to in this analysis report."



Unit/Vehicle No.: U256
Unit Make: Hitachi
Unit Model: ZX490-5
Unit Serial No.:
Unit/Vehicle Site: Plumpton
Comp Name: Right Final Drive
Comp Make: Yanmar
Comp Model: .
Comp Serial No.:
System Capacity: 1.0 Ltrs

Customer Number
260401
 JAYDO CONSTRUCTION
 91 Boundry Road
 Curram Downs VIC 3201

SAMPLE STATUS

	Current Sample	Last Sample	Previous Sample	Previous Sample
				
LAB CHECK NO.	42384568	42384481		
TRACKING NUMBER				
ANALYSIS NO.	10204948444	10204947778		
SAMPLED DATE	25-Jun-21	23-Jun-21		
RECEIVED DATE	28-Jun-21	25-Jun-21		
REPORTED DATE	29-Jun-21	28-Jun-21		
MACHINE	Hrs			
OIL	Hrs			
OIL MAKE	500	GL-4	Unidentified	
OIL GRADE	SAE 90	-		
OIL ADDED	Ltrs			
OIL CHANGED	Yes			
FILTER	Hrs			
FILTER CHANGED				

Caution



LEGEND	
	Severe
	Abnormal
	Caution
	Normal

Metals (ppm)

*Aluminium (Al)	10	1
*Copper (Cu)	<1	<1
*Chromium (Cr)	5	<1
*Iron (Fe)	148	27
*Lead (Pb)	<1	<1
*Tin (Sn)	2	1
*Nickel (Ni)	<1	<1

Contaminants and Additives (ppm)

*Silicon (Si)	44	7
Boron (B)	<5	22
*Sodium (Na)	2	2
*Potassium (K)	1	<1
*Phosphorus (P)	313	363
*Molybdenum (Mo)	<1	<1
*Magnesium (Mg)	2	<1
*Calcium (Ca)	11	7
*Zinc (Zn)	7	2

Physical Tests

Water (%) (FTIR)	<0.1	<0.1
Viscosity (cSt,40°C)	205	200
PQ Index	90	15
Oxidation (Abs) (FTIR)	1.8	2.6

Guidelines

0 - 18	(gl)
0 - 50	(gl)
0 - 4	(gl)
0 - 500	(gl)
0 - 35	(gl)
0 - 18	(gl)
0 - 4	(gl)

LEGEND
 (gl) Guidelines
 (fr) Fluid Reference
 (*) No reference

0 - 0.10	(gl)
195	(fr)
0 - 500	(gl)
4.5	(fr)

DIAGNOSIS

Please contact your local Hitachi outlet for further explanation on non-normal samples

Chromium wear rate elevated. All other wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range. Action: Advise inspect filter/strainer for abnormal wear metal (if applicable). As oil already changed and if visible metal/debris was acceptable, resample at a reduced service interval to further monitor.

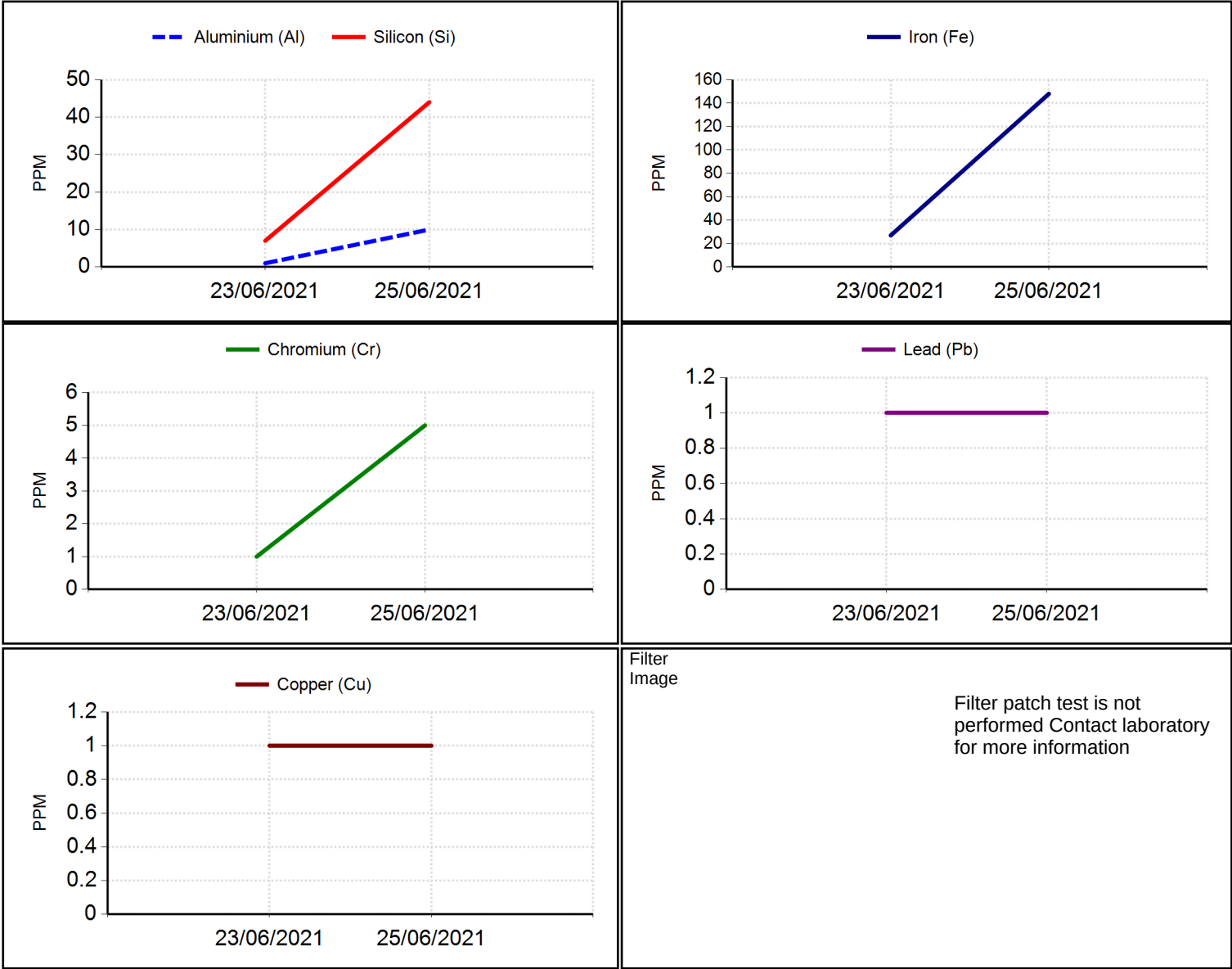
NATA Accreditation No. 825. Site No. 2024. *NATA accreditation covers the performance of this service.

PREVIOUS DIAGNOSIS

As oil brand/grade/time on oil unknown, diagnosis is limited. However, All wear levels appear within acceptable limits for first sample. Silicon level (dirt/sealant material) satisfactory. Water content acceptable. Please check recorded viscosity against requirements.

Action: Resample at next recommended interval to monitor and establish wear trend.

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Unit/Vehicle No.: 256
Unit Make: Hitachi
Unit Model: ZX490LCH-5A
Unit Serial No.: HCMJAE20V00061031
Unit/Vehicle Site:

Comp Name: Travel Transmission R/H
Comp Make:
Comp Model:
Comp Serial No.:
System Capacity: 7.0 Ltrs

Customer Number
260401
 JAYDO CONSTRUCTION
 91 Boundry Road
 Curram Downs VIC 3201

SAMPLE STATUS

Current Sample Last Sample Previous Sample Previous Sample



Abnormal



LEGEND	
	Severe
	Abnormal
	Caution
	Normal

LAB CHECK NO.

TRACKING NUMBER

ANALYSIS NO.

SAMPLED DATE

RECEIVED DATE

REPORTED DATE

MACHINE

OIL

OIL MAKE

OIL GRADE

OIL ADDED

OIL CHANGED

FILTER

FILTER CHANGED

Metals (ppm)

*Aluminium (Al)

*Copper (Cu)

*Chromium (Cr)

*Iron (Fe)

*Lead (Pb)

*Tin (Sn)

*Nickel (Ni)

Contaminants and Additives (ppm)

*Silicon (Si)

Boron (B)

*Sodium (Na)

*Potassium (K)

*Phosphorus (P)

*Molybdenum (Mo)

*Magnesium (Mg)

*Calcium (Ca)

*Zinc (Zn)

Physical Tests

Water (%) (FTIR)

Viscosity (cSt,40°C)

PQ Index

Oxidation (Abs) (FTIR)

Guidelines

LEGEND
 (gl) Guidelines
 (fr) Fluid Reference
 (*) No reference

0 - 69	(gl)
0 - 9	(gl)
0 - 9	(gl)
0 - 699	(gl)
0 - 4	(gl)
0 - 4	(gl)
0 - 4	(gl)
0 - 289	(gl)
<5	(fr)
<1	(fr)
1	(fr)
319	(fr)
<1	(fr)
<1	(fr)
3	(fr)
4	(fr)
0 - 0.09	(gl)
195	(fr)
0 - 299	(gl)
0 - 14.90	(gl)

DIAGNOSIS

Please contact your local Hitachi outlet for further explanation on non-normal samples

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity low for specified oil grade. Action: Please confirm oil type and grade used in this component. As oil already changed, resample next recommended service interval to further monitor.

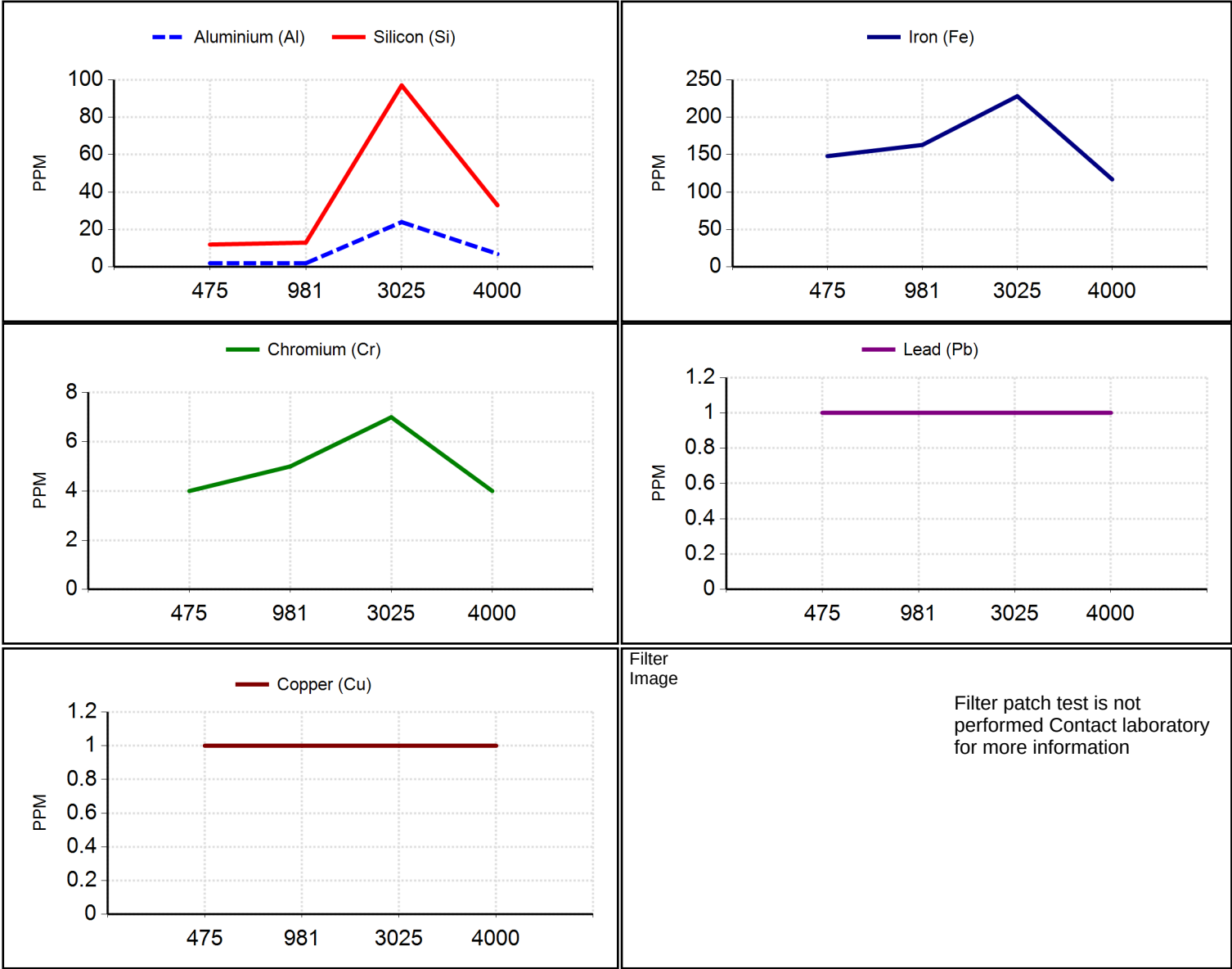
NATA Accreditation No. 825. Site No. 2024. *NATA accreditation covers the performance of this service.

PREVIOUS DIAGNOSIS

All wear rates normal. Trace dirt (alumina + silica) is noted. Other contaminant levels acceptable. Viscosity low for specified oil grade.

Action: Check all dirt access points as a precaution. As oil already changed, resample next recommended service interval to further monitor.

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Unit/Vehicle No.: 256
Unit Make: Hitachi
Unit Model: ZX490LCH-5A
Unit Serial No.: HCMJAE20V00061031
Unit/Vehicle Site:

Comp Name: Travel Transmission R/H
Comp Make:
Comp Model:
Comp Serial No.:
System Capacity: 7.0 Ltrs

Customer Number
260401
 JAYDO CONSTRUCTION
 91 Boundry Road
 Curram Downs VIC 3201

SAMPLE STATUS

Current Sample Last Sample Previous Sample Previous Sample



Abnormal



LEGEND	
	Severe
	Abnormal
	Caution
	Normal

LAB CHECK NO.

99490089

99303523

99113302

42742531

TRACKING NUMBER

10205322830

10205292653

10003976368

10205209982

ANALYSIS NO.

28-Oct-23

24-Aug-23

16-May-23

11-Feb-23

SAMPLED DATE

07-Nov-23

05-Sep-23

19-Jun-23

08-Mar-23

RECEIVED DATE

08-Nov-23

08-Sep-23

19-Jun-23

10-Mar-23

REPORTED DATE

MACHINE Hrs

6000

5500

5000

4500

OIL Hrs

500

500

500

500

OIL MAKE

GL-4

GL-4

GL-4

GL-4

OIL GRADE

SAE 90

SAE 90

SAE 90

SAE 90

OIL ADDED Ltrs

0.0

0.0

0.0

0.0

OIL CHANGED

Yes

Yes

Yes

Yes

FILTER Hrs

Not Applicable

Not Applicable

Not Applicable

Not Applicable

FILTER CHANGED

No

No

No

No

Metals (ppm)

*Aluminium (Al)

13

51

39

5

0 - 69 (gl)

*Copper (Cu)

<1

<1

<1

<1

0 - 9 (gl)

*Chromium (Cr)

2

4

2

2

0 - 9 (gl)

*Iron (Fe)

133

329

115

78

0 - 699 (gl)

*Lead (Pb)

<1

<1

<1

<1

0 - 4 (gl)

*Tin (Sn)

1

2

1

1

0 - 4 (gl)

*Nickel (Ni)

<1

<1

<1

<1

0 - 4 (gl)

Contaminants and Additives (ppm)

*Silicon (Si)

44

146

96

19

0 - 289 (gl)

Boron (B)

6

7

16

75

<5 (fr)

*Sodium (Na)

<1

1

<1

<1

<1 (fr)

*Potassium (K)

2

4

4

<1

1 (fr)

*Phosphorus (P)

287

324

384

740

319 (fr)

*Molybdenum (Mo)

<1

<1

<1

1

<1 (fr)

*Magnesium (Mg)

2

6

4

1

<1 (fr)

*Calcium (Ca)

5

11

8

2

3 (fr)

*Zinc (Zn)

1

1

1

3

4 (fr)

Physical Tests

Water (%) (FTIR)

<0.1

<0.1

<0.1

<0.1

0 - 0.09 (gl)

Viscosity (cSt,40°C)

130

136

190

138

195 (fr)

PQ Index

58

274

94

29

0 - 299 (gl)

Oxidation (Abs) (FTIR)

7.6

7.7

3.1

10.4

0 - 14.90 (gl)

Guidelines

LEGEND
 (gl) Guidelines
 (fr) Fluid Reference
 (*) No reference

DIAGNOSIS

Please contact your local Hitachi outlet for further explanation on non-normal samples

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity low for specified oil grade. Action: Please confirm oil type and grade used in this component. As oil already changed, resample at a reduced service interval to further monitor.

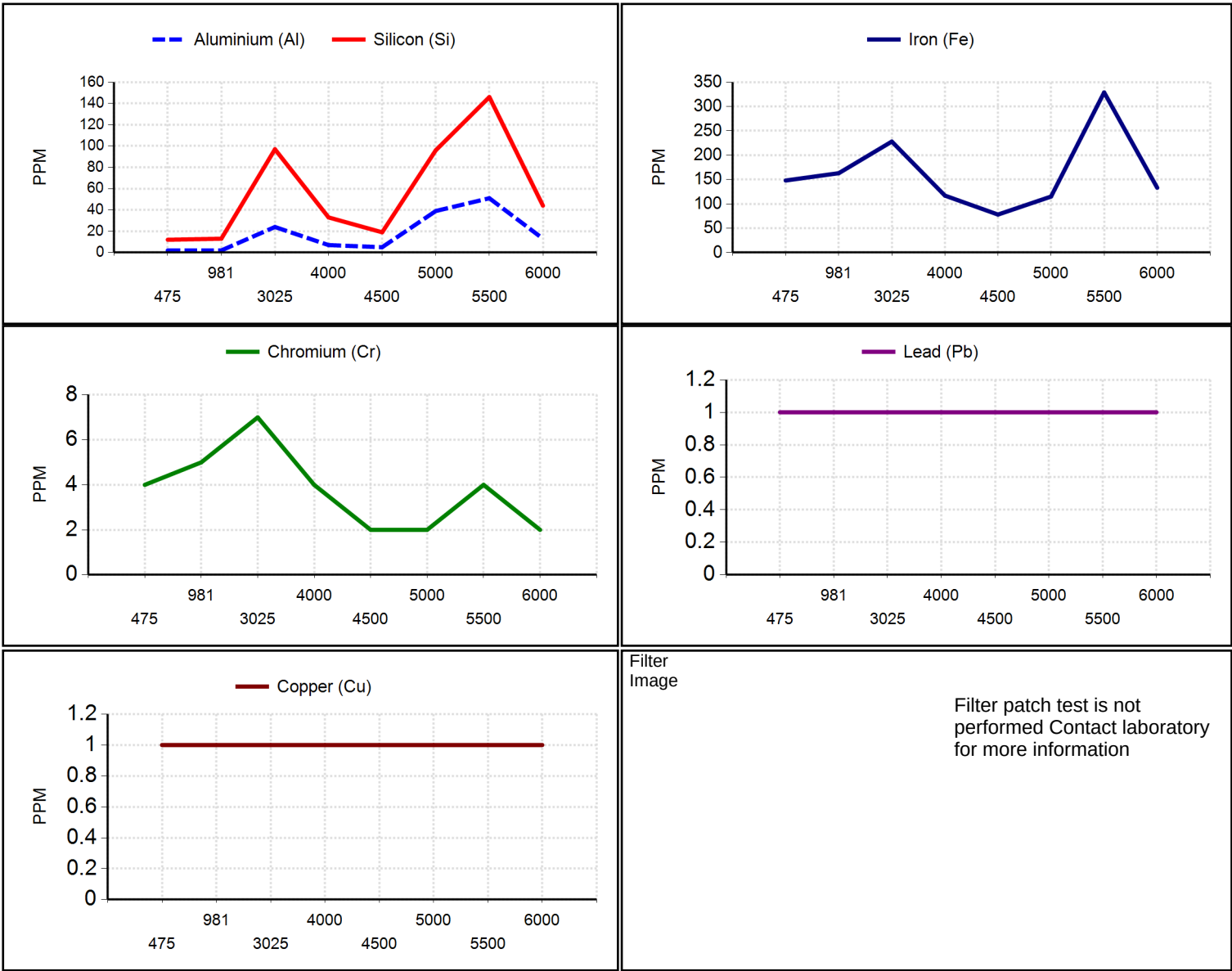
NATA Accreditation No. 825. Site No. 2024. *NATA accreditation covers the performance of this service.

PREVIOUS DIAGNOSIS

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity low for specified oil grade.

Action: Please confirm oil grade used in this component. As oil already changed, resample next recommended service interval to further monitor.

"This analysis report is dependent upon the accurate completion of the sample submission sheet and correct sampling techniques as advised. The analysis is intended as an aid only in predicting mechanical wear and should not be regarded as a substitute for proper servicing or mechanical inspection. The company does not accept any liability whatsoever in respect of any loss or damage (including loss of profits, economic or other consequential loss or damage) however caused which may arise directly, or indirectly, as a result of the matters referred to in this analysis report."



Unit/Vehicle No.: 256
Unit Make: Hitachi
Unit Model: ZX490LCH-5A
Unit Serial No.: HCMJAE20V00061031
Unit/Vehicle Site:

Comp Name: Swing Transmission R/H
Comp Make:
Comp Model:
Comp Serial No.:
System Capacity: 11.0 Ltrs

Customer Number
260401
 JAYDO CONSTRUCTION
 91 Boundry Road
 Curram Downs VIC 3201

SAMPLE STATUS

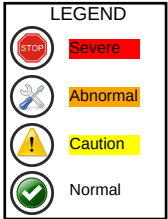
Current Sample

Last Sample

Previous Sample

Previous Sample

Abnormal



LAB CHECK NO.		98483965	97808560	96532653	96238468
TRACKING NUMBER			WO00139173	wo00084159	
ANALYSIS NO.		10205155369	10205046143	10204811865	10204756530
SAMPLED DATE		15-Oct-22	02-Feb-22	28-Aug-20	05-May-20
RECEIVED DATE		01-Nov-22	14-Feb-22	03-Sep-20	12-May-20
REPORTED DATE		03-Nov-22	16-Feb-22	04-Sep-20	14-May-20
MACHINE	Hrs	4000	3025	981	475
OIL	Hrs	975	2044	981	475
OIL MAKE		GL-4	GL-4	GL-4	GL-4
OIL GRADE		SAE 90	SAE 90	SAE 90	SAE 90
OIL ADDED	Ltrs	0.0	0.0	0.0	0.0
OIL CHANGED		Yes	Yes	Yes	No
FILTER	Hrs	Not Applicable			0
FILTER CHANGED		Yes	No	No	No

Metals (ppm)

*Aluminium (Al)	<1	<1	1	1	0 - 9 (gl)
*Copper (Cu)	<1	1	<1	<1	0 - 14 (gl)
*Chromium (Cr)	<1	<1	1	1	0 - 9 (gl)
*Iron (Fe)	<1	1	34	38	0 - 159 (gl)
*Lead (Pb)	<1	<1	<1	<1	0 - 9 (gl)
*Tin (Sn)	<1	<1	<1	1	0 - 4 (gl)
*Nickel (Ni)	<1	<1	<1	<1	0 - 4 (gl)

Contaminants and Additives (ppm)

*Silicon (Si)	<1	1	11	11	0 - 34 (gl)
Boron (B)	123	<5	55	74	<5 (fr)
*Sodium (Na)	1	<1	1	<1	<1 (fr)
*Potassium (K)	1	1	<1	<1	1 (fr)
*Phosphorus (P)	806	238	390	440	319 (fr)
*Molybdenum (Mo)	<1	<1	<1	<1	<1 (fr)
*Magnesium (Mg)	<1	<1	<1	<1	<1 (fr)
*Calcium (Ca)	<1	4	10	12	3 (fr)
*Zinc (Zn)	1	43	2	2	4 (fr)

Physical Tests

Water (%) (FTIR)	<0.1	<0.1	<0.1	<0.1	0 - 0.09 (gl)
Viscosity (cSt,40°C)	142	206	187	189	195 (fr)
PQ Index	<10	<10	19	18	0 - 199 (gl)
Oxidation (Abs) (FTIR)	9.3	12.9	4.1	4.7	1 - 14.90 (gl)

Guidelines

LEGEND
 (gl) Guidelines
 (fr) Fluid Reference
 (*) No reference

DIAGNOSIS

Please contact your local Hitachi outlet for further explanation on non-normal samples

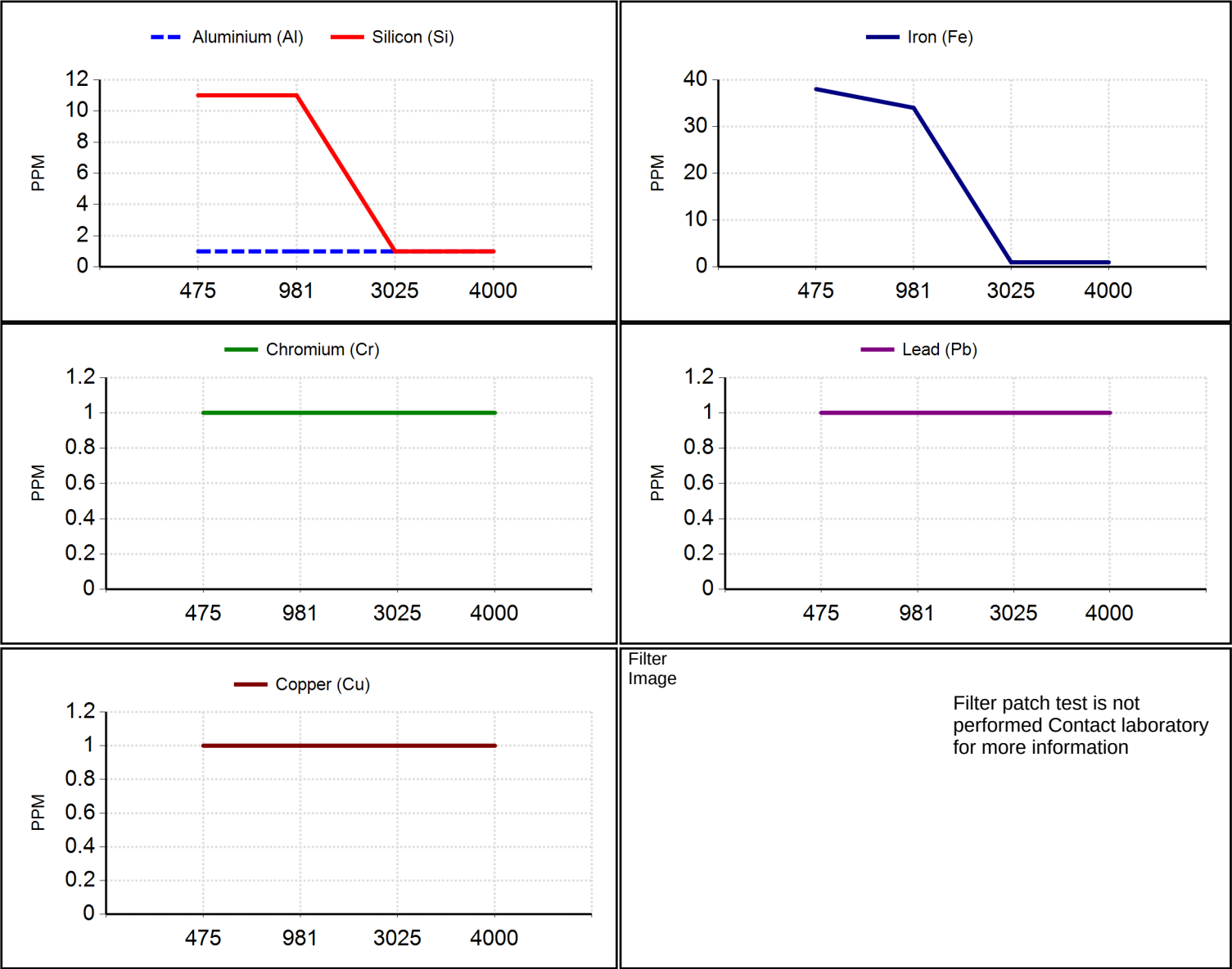
All wear rates normal. Abrasive and other contaminant levels are acceptable. Results indicate a mixture of oils. Viscosity low for specified oil grade. Action: As oil already changed, resample at a reduced service interval to further monitor.
 NATA Accreditation No. 825. Site No. 2024. *NATA accreditation covers the performance of this service.

PREVIOUS DIAGNOSIS

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range.

Action: As oil already changed, resample next recommended service interval to further monitor.

"This analysis report is dependent upon the accurate completion of the sample submission sheet and correct sampling techniques as advised. The analysis is intended as an aid only in predicting mechanical wear and should not be regarded as a substitute for proper servicing or mechanical inspection. The company does not accept any liability whatsoever in respect of any loss or damage (including loss of profits, economic or other consequential loss or damage) however caused which may arise directly, or indirectly, as a result of the matters referred to in this analysis report."



Unit/Vehicle No.: 256
Unit Make: Hitachi
Unit Model: ZX490LCH-5A
Unit Serial No.: HCMJAE20V00061031
Unit/Vehicle Site:

Comp Name: Swing Transmission R/H
Comp Make:
Comp Model:
Comp Serial No.:
System Capacity: 11.0 Ltrs

Customer Number
260401
 JAYDO CONSTRUCTION
 91 Boundry Road
 Curram Downs VIC 3201

SAMPLE STATUS

Current Sample Last Sample Previous Sample Previous Sample



Abnormal



LEGEND	
	Severe
	Abnormal
	Caution
	Normal

LAB CHECK NO.	99490087	99303521	99113300	42758399
TRACKING NUMBER				
ANALYSIS NO.	10004031810	10205292632	10003976367	10205209952
SAMPLED DATE	28-Oct-23	24-Aug-23	16-May-23	11-Feb-23
RECEIVED DATE	06-Nov-23	05-Sep-23	19-Jun-23	08-Mar-23
REPORTED DATE	06-Nov-23	08-Sep-23	19-Jun-23	10-Mar-23
MACHINE	Hrs 6000	5500	5000	4500
OIL	Hrs 1000	500	1000	500
OIL MAKE	GL-4	GL-4	GL-4	GL-4
OIL GRADE	SAE 90	SAE 90	SAE 90	SAE 90
OIL ADDED	Ltrs 0.0	0.0	0.0	
OIL CHANGED	Yes	No	Yes	No
FILTER	Hrs Not Applicable			
FILTER CHANGED	No	No	No	

Metals (ppm)

Aluminium (Al)	1	<1	1	<1	0 - 9 (gl)
Copper (Cu)	<1	<1	<1	<1	0 - 14 (gl)
Chromium (Cr)	<1	<1	1	<1	0 - 9 (gl)
Iron (Fe)	14	14	33	27	0 - 159 (gl)
Lead (Pb)	<1	<1	<1	<1	0 - 9 (gl)
Tin (Sn)	<1	<1	<1	<1	0 - 4 (gl)
Nickel (Ni)	<1	<1	<1	<1	0 - 4 (gl)

Contaminants and Additives (ppm)

Silicon (Si)	6	6	5	4	0 - 34 (gl)
Boron (B)	34	15	103	91	<5 (fr)
Sodium (Na)	<1	<1	1	<1	<1 (fr)
Potassium (K)	<1	<1	<1	1	1 (fr)
Phosphorus (P)	385	413	670	689	319 (fr)
Molybdenum (Mo)	<1	<1	<1	<1	<1 (fr)
Magnesium (Mg)	1	1	<1	<1	<1 (fr)
Calcium (Ca)	7	15	1	1	3 (fr)
Zinc (Zn)	6	8	1	1	4 (fr)

Physical Tests

Water (%) (FTIR)	<0.1	<0.1	<0.1	<0.1	0 - 0.09 (gl)
Viscosity (cSt,40°C)	135	133	151	154	195 (fr)
PQ Index	<10	<10	23	15	0 - 199 (gl)
Oxidation (Abs) (FTIR)	6.7	8.1	6.5	7.2	1 - 14.90 (gl)

Guidelines

LEGEND
 (gl) Guidelines
 (fr) Fluid Reference
 (*) No reference

DIAGNOSIS

Please contact your local Hitachi outlet for further explanation on non-normal samples

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity low for specified oil grade. Action: As oil already changed, resample next recommended service interval to further monitor.

PREVIOUS DIAGNOSIS

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity low for specified oil grade.

Action: Resample at a reduced service interval to further monitor.

"This analysis report is dependent upon the accurate completion of the sample submission sheet and correct sampling techniques as advised. The analysis is intended as an aid only in predicting mechanical wear and should not be regarded as a substitute for proper servicing or mechanical inspection. The company does not accept any liability whatsoever in respect of any loss or damage (including loss of profits, economic or other consequential loss or damage) however caused which may arise directly, or indirectly, as a result of the matters referred to in this analysis report."

