

208-3  
BLUE - MAR



N03C LAB under N030 -

**HYDRAULIC SYSTEM**

N030-55217-0219  
 LABEL#: 201894443  
 SAMPLE SHIP TIME (days) : 5  
**PIDHERNEYS INC**  
 RECEIVED DATE: 05-Aug-25

EQUIP NUM: 7842

SERIAL NUMBER: RAD01038

CAT D6T

**No Action Required**

Interp By: Greg Eyre  
 Interpreted On: 09-Aug-25

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

**SAMPLE INFORMATION**

	31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
Sampled Date	31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
Sample Id	N030-55217-0219	N030-54285-0943	N030-54176-0757	N030-53202-0556
Lab Date	05-Aug-25	11-Oct-24	24-Jun-24	21-Jul-23
Meter [Hr]	7353.0	6939.0	6705.0	5923.0
Comp Meter [Hr]		6939.0	6705.0	
Meter On Fluid	1430.0	1016.0	782.0	5923.0
Fluid Brand	CAT	CAT	CAT	CAT
Fluid Weight	10W	10W	10W	10W
Fluid Type	HYDO ADVANCED	HYDO ADVANCED	HYDO ADVANCED	HYDO ADVANCED
Fluid Change	N	N	N	Y
Filter Change	Y	Y	Y	Y

**CONDITION / CONTAMINATION**

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
<b>VISCOSITY (Centistokes)</b>					
V100	Viscosity at 100 C	6.600	6.500	6.500	6.600

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
<b>VISCOSITY (Centistokes)</b>					
V40	Viscosity at 40 C	40.20	40.30	40.20	41.00

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
<b>VISCOSITY INDEX</b>					
VI	Viscosity Index	117	112	113	114

**WEAR LEVELS / ADDITIVES**

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
<b>ELEMENTAL ANALYSIS (ppm)</b>					
Na	Sodium	1	1	1	0
K	Potassium	1	0	1	0
Si	Silicon	8	8	9	0
Al	Aluminum	3	4	3	0
Fe	Iron	16	15	14	0
Cr	Chromium	2	2	2	0
Pb	Lead	1	1	1	0
Cu	Copper	9	9	8	0
Sn	Tin	0	0	0	0
Ni	Nickel	0	0	0	0
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	882	849	862	853
Ca	Calcium	464	495	487	143
Mg	Magnesium	38	39	39	1
Ba	Barium	0	0	0	0
B	Boron	2	2	2	0
Mo	Molybdenum	2	2	2	0
P	Phosphorus	634	641	714	628

**INFRARED (UFM)**

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
ST	Soot	0	0	0	0
OXI	Oxidation	4	4	4	3
SUL	Sulfate By-Product	12	13	12	12
	Sulfur Products	12	13	12	12
NIT	Nitration	2	2	2	2

**ANTIFREEZE**

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
A	Antifreeze	N	N	N	N

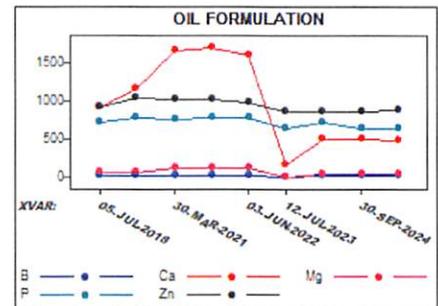
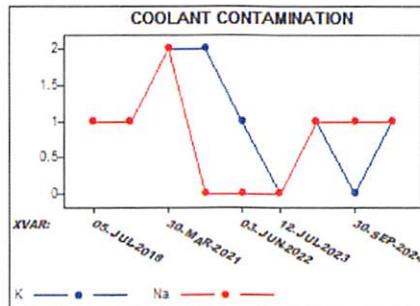
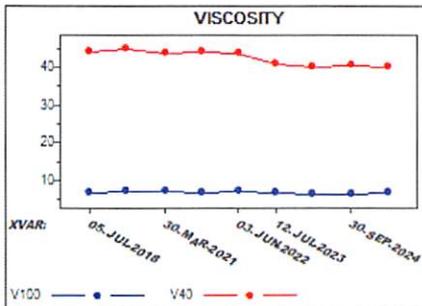
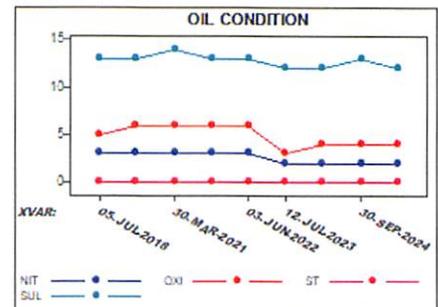
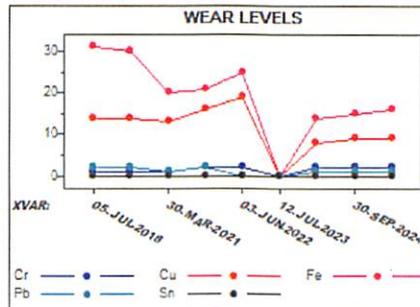
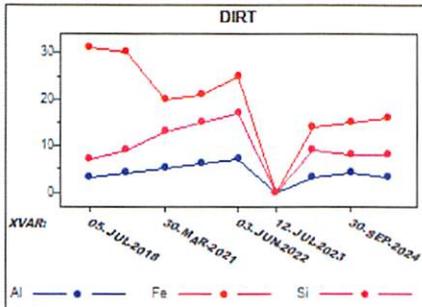
**WATER**

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
W	Water	N	N	N	N

**CLEANLINESS**

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
<b>PARTICLE COUNT</b>					
ISO	ISO Code Rating	20/14/9	22/19/14	20/17/10	21/20/17
4μ	4μ	5798	27112	5829	10657
6μ	6μ	157	4133	950	5925
10μ	10μ	19	386	75	2367
14μ	14μ	5	106	7	911
18μ	18μ	3			552
21μ	21μ	2	30	1	360
38μ	38μ	1	4	0	13
50μ	50μ	1			4

Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or component thereof.



Report Comment

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RIGHT REAR DRIVE SHAFT

EQUIP NUM: 7842

SERIAL NUMBER: RAD01038

RIGHT

CAT D6T

 Monitor Compartment

Interp By: Greg Eyre  
Interpreted On: 09-Aug-25

N030-55217-0224

LABEL#: 201937172

SAMPLE SHIP TIME (days) : 5

PIDHERNEYS INC

RECEIVED DATE: 05-Aug-25

ELEVATED DIRT CONTENT. OTHER READINGS APPEAR TO BE NORMAL. SUGGEST TO CHANGE OIL AND RESAMPLE AT THE NEXT SERVICE INTERVAL. EXAMINE HOUSING SEALS, BREATHERS, PLUGS FOR INDICATIONS OF LEAKAGE OR DIRT/ WATER ENTRY.

**SAMPLE INFORMATION**

				
	31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
Sampled Date	31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
Sample Id	N030-55217-0224	N030-54285-0756	N030-54176-0760	N030-53202-0558
Lab Date	05-Aug-25	11-Oct-24	24-Jun-24	21-Jul-23
Meter [Hr]	7353.0	6939.0	6705.0	5923.0
Comp Meter [Hr]		6939.0	6705.0	
Meter On Fluid	2329.0	1915.0	1681.0	899.7
Fluid Brand	SHELL	SHELL	SHELL	SHELL
Fluid Weight	60	60	60	60
Fluid Type	SPIRAX S6 CFD ME 6			
Fluid Change	N	N	N	N
Filler Change	N	N	N	N

**CONDITION / CONTAMINATION**

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
<b>VISCOSITY (Centistokes)</b>					
V100	Viscosity at 100 C	22.80	23.00	23.70	22.80
<b>VISCOSITY (Centistokes)</b>					
V40	Viscosity at 40 C	177.7	180.2	176.3	176.6
<b>VISCOSITY INDEX</b>					
VI	Viscosity Index	155	155	165	156

**WEAR LEVELS / ADDITIVES**

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
<b>ELEMENTAL ANALYSIS (ppm)</b>					
Na	Sodium	4	5	5	5
K	Potassium	3	4	3	2
Si	Silicon	63	63	60	51
Al	Aluminum	11	11	11	9
Fe	Iron	51	45	41	31
Cr	Chromium	3	3	3	2
Pb	Lead	0	0	0	0
Cu	Copper	0	0	0	0
Sn	Tin	0	0	0	0
Ni	Nickel	0	0	0	0
Ag	Silver	0	0	0	0
Ti	Titanium	1	1	1	0
V	Vanadium	0	0	0	0
Zn	Zinc	144	149	138	132
Ca	Calcium	650	661	625	666
Mg	Magnesium	7	8	7	7
Ba	Barium	0	0	0	0
B	Boron	81	90	85	88
Mo	Molybdenum	3	3	3	3
P	Phosphorus	380	366	403	379

**INFRARED (UFM)**

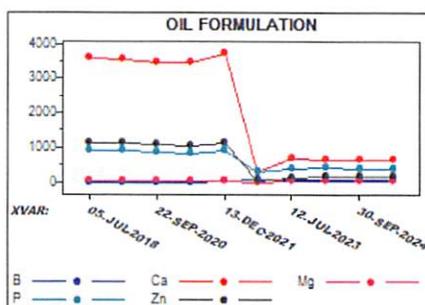
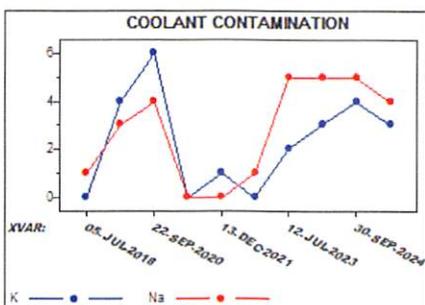
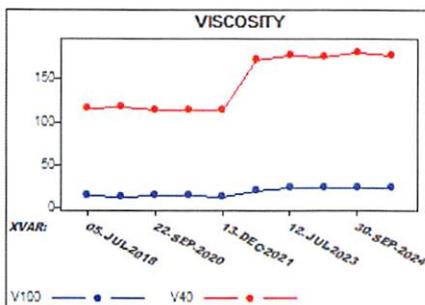
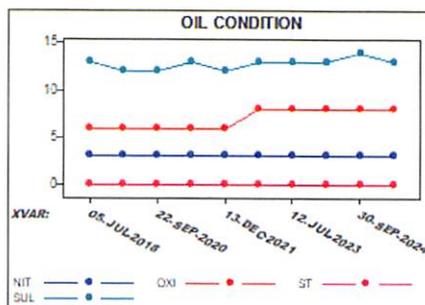
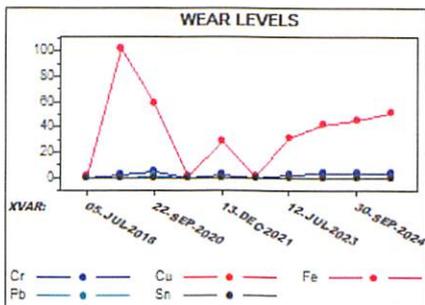
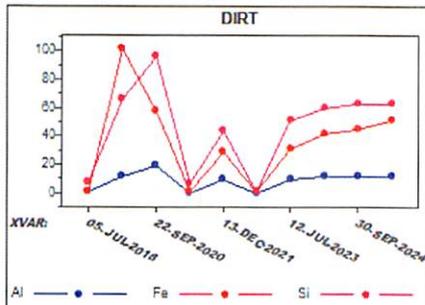
		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
ST	Soot	0	0	0	0
OXI	Oxidation	8	8	8	8
SUL	Sulfate By-Product	13	14	13	13
	Sulfur Products	13	14	13	13
NIT	Nitration	3	3	3	3

**WATER**

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
W	Water	N	N	N	N

**CLEANLINESS**

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
<b>PARTICLE COUNT</b>					
ISO	ISO Code Rating	23/22/16	23/21/14	23/21/14	23/22/17
4µ	4µ	56715	54910	61030	64299
6µ	6µ	28908	12071	14156	22826
10µ	10µ	3160	470	610	2954
14µ	14µ	470	84	96	1039
18µ	18µ	127	30		500
21µ	21µ	65	17	19	292
38µ	38µ	4	3	2	12
50µ	50µ	1	1		4



**Report Comment**

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**TRANSMISSION POWER**

EQUIP NUM: 7842

SERIAL NUMBER: RAD01038

**SHIFT**

CAT D6T

N030-55217-0227  
 LABEL#: 201809814  
 SAMPLE SHIP TIME (days) : 5  
**PIDHERNEYS INC**  
 RECEIVED DATE: 05-Aug-25

 **No Action Required**

Interp By: Greg Eyre  
 Interpreted On: 09-Aug-25

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

**SAMPLE INFORMATION**

	31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
Sampled Date	31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
Sample Id	N030-55217-0227	N030-54285-0945	N030-54176-0758	N030-53202-0557
Lab Date	05-Aug-25	11-Oct-24	24-Jun-24	21-Jul-23
Meter [Hr]	7353.0	6939.0	6705.0	5923.0
Comp Meter [Hr]		6939.0	6705.0	
Meter On Fluid	414.0	1016.0	782.0	899.7
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	10W-40	10W-40	10W-40	10W-40
Fluid Type	DELO TORQFORCE M	DELO TORQFORCE M	DELO TORQFORCE M	DELO TORQFORCE M
Fluid Change	N	Y	N	Y
Filter Change	Y	Y	Y	N

**CONDITION / CONTAMINATION**

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
<b>VISCOSITY (Centistokes)</b>					
V100	Viscosity at 100 C	14.00	14.20	14.00	14.30
<b>VISCOSITY (Centistokes)</b>					
V40	Viscosity at 40 C	104.1	105.5	110.8	113.3
<b>VISCOSITY INDEX</b>					
VI	Viscosity Index	136	137	127	128

**WEAR LEVELS / ADDITIVES**

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
<b>ELEMENTAL ANALYSIS (ppm)</b>					
Na	Sodium	0	1	1	1
K	Potassium	0	0	0	0
Si	Silicon	3	3	3	6
Al	Aluminum	0	1	1	0
Fe	Iron	3	2	5	1
Cr	Chromium	0	0	0	0
Pb	Lead	0	0	0	0
Cu	Copper	0	0	1	0
Sn	Tin	0	0	0	0
Ni	Nickel	0	0	0	0
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1044	1010	1096	1029
Ca	Calcium	3245	3359	3365	3597
Mg	Magnesium	7	9	7	10
Ba	Barium	0	0	0	0
B	Boron	3	7	2	2
Mo	Molybdenum	1	1	1	1
P	Phosphorus	806	808	880	807

**INFRARED (UFM)**

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
ST	Soot	0	0	0	0
OXI	Oxidation	6	6	6	6
SUL	Sulfate By-Product	12	13	13	12
	Sulfur Products	12	13	13	12
NIT	Nitration	3	3	4	3

**ANTIFREEZE**

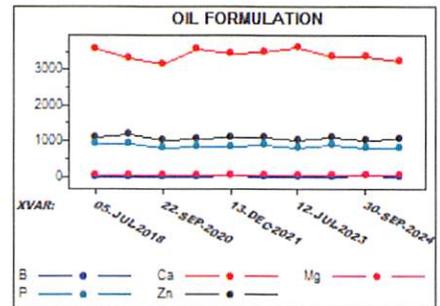
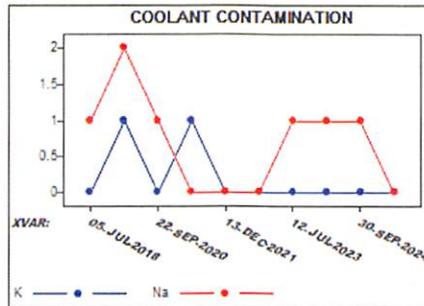
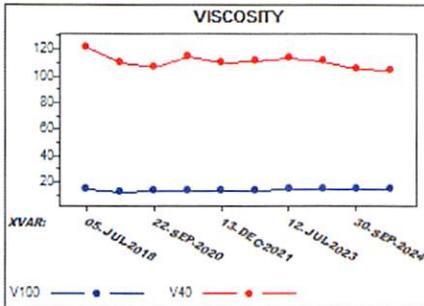
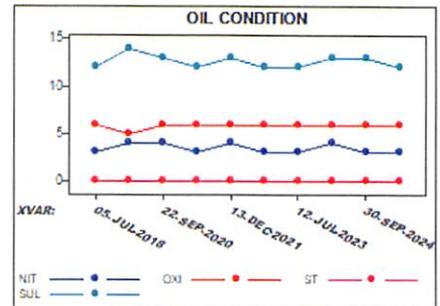
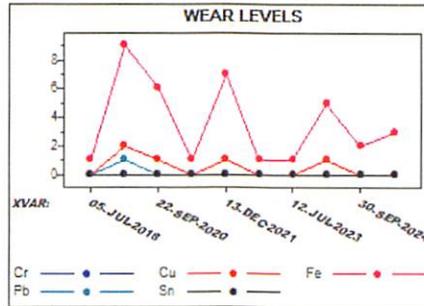
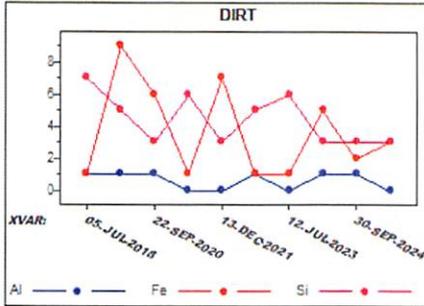
		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
A	Antifreeze	N	N	N	N

**WATER**

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
W	Water	N	N	N	N

**CLEANLINESS**

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
<b>PARTICLE COUNT</b>					
ISO	ISO Code Rating	20/18/14	23/21/14	21/18/14	22/21/12
4µ	4µ	7506	42217	14290	34105
6µ	6µ	1432	11687	2027	10070
10µ	10µ	321	1049	261	447
14µ	14µ	107	133	88	35
18µ	18µ	41			15
21µ	21µ	23	14	28	10
38µ	38µ	2	1	1	2
50µ	50µ	1			1



**Report Comment**

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FINAL DRIVE REAR LEFT

EQUIP NUM: 7842

SERIAL NUMBER: RAD01038

N030-55217-0233

LABEL#: 201894049

SAMPLE SHIP TIME (days) : 5

PIDHERNEYS INC

RECEIVED DATE: 05-Aug-25

CAT D6T



No Action Required

Interp By: Greg Eyre  
Interpreted On: 09-Aug-25

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

**SAMPLE INFORMATION**

	31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
Sampled Date	31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
Sample Id	N030-55217-0233	N030-54285-0950	N030-54176-0761	N030-53202-0559
Lab Date	05-Aug-25	11-Oct-24	24-Jun-24	21-Jul-23
Meter [Hr]	7353.0	6939.0	6705.0	5923.0
Comp Meter [Hr]		6939.0	6705.0	
Meter On Fluid	2329.0	1915.0	1681.0	899.7
Fluid Brand	SHELL	SHELL	SHELL	SHELL
Fluid Weight	60	60	60	60
Fluid Type	SPIRAX S6 CFD ME 6			
Fluid Change	N	N	N	N
Filter Change	N	N	N	N

**CONDITION / CONTAMINATION**

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
<b>VISCOSITY (Centistokes)</b>					
V100	Viscosity at 100 C	22.00	22.00	21.90	22.30
<b>VISCOSITY (Centistokes)</b>					
V40	Viscosity at 40 C	171.7	172.2	171.4	173.8
<b>VISCOSITY INDEX</b>					
VI	Viscosity Index	153	153	154	155

**WEAR LEVELS / ADDITIVES**

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
<b>ELEMENTAL ANALYSIS (ppm)</b>					
Na	Sodium	4	4	4	4
K	Potassium	2	2	1	0
Si	Silicon	27	27	26	21
Al	Aluminum	4	5	4	3
Fe	Iron	50	39	37	25
Cr	Chromium	2	2	2	1
Pb	Lead	0	0	0	0
Cu	Copper	0	0	0	0
Sn	Tin	0	0	0	0
Ni	Nickel	0	0	0	0
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	147	138	142	134
Ca	Calcium	673	652	651	680
Mg	Magnesium	4	4	4	4
Ba	Barium	0	0	0	0
B	Boron	82	88	86	90
Mo	Molybdenum	2	1	1	1
P	Phosphorus	390	375	399	377

**INFRARED (UFM)**

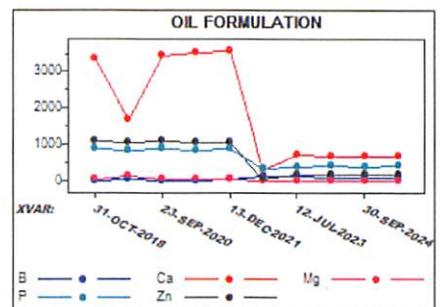
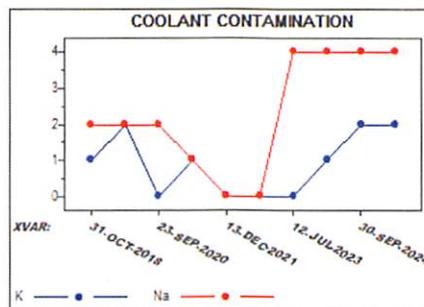
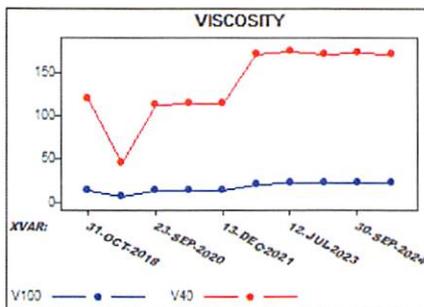
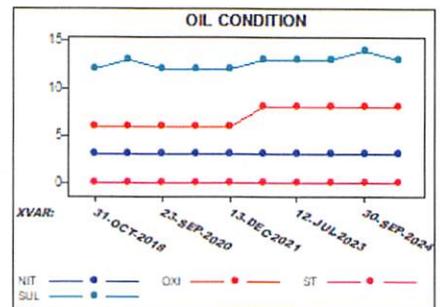
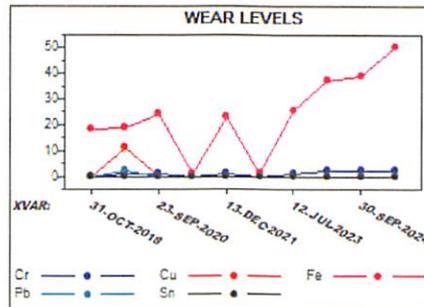
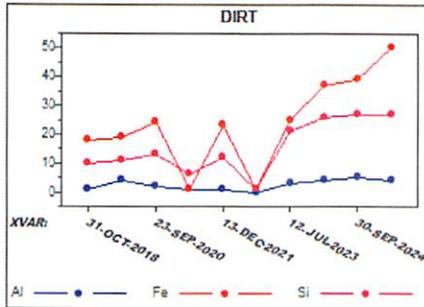
		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
ST	Soot	0	0	0	0
OXI	Oxidation	8	8	8	8
SUL	Sulfate By-Product	13	14	13	13
	Sulfur Products	13	14	13	13
NIT	Nitration	3	3	3	3

**WATER**

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
W	Water	N	N	N	N

**CLEANLINESS**

		31-Jul-25	30-Sep-24	16-Jun-24	12-Jul-23
<b>PARTICLE COUNT</b>					
ISO	ISO Code Rating	23/21/17	22/19/13	23/20/13	23/20/15
4µ	4µ	52765	37709	48158	44116
6µ	6µ	16477	4352	7258	9330
10µ	10µ	1815	221	293	1224
14µ	14µ	681	56	49	315
18µ	18µ	317			113
21µ	21µ	185	13	7	62
38µ	38µ	9	1	0	7
50µ	50µ	2			4



**Report Comment**

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**ENGINE**

**EQUIP NUM: 7842**

**SERIAL NUMBER: RAD01038**

**N030-55217-0269**

LABEL#: 201893859

SAMPLE SHIP TIME (days) : 5

**PIDHERNEYS INC**

RECEIVED DATE: 05-Aug-25

**CAT D6T**



**No Action Required**

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

**Interp By: Greg Eyre**  
**Interpreted On: 09-Aug-25**

**SAMPLE INFORMATION**

	31-Jul-25	09-Jun-25	30-Sep-24	16-Jun-24
Sampled Date	31-Jul-25	09-Jun-25	30-Sep-24	16-Jun-24
Sample Id	N030-55217-0269	N030-55163-0739	N030-54285-0923	N030-54176-0759
Lab Date	05-Aug-25	12-Jun-25	11-Oct-24	24-Jun-24
Meter [Hr]	7353.0	7152.0	6939.0	6705.0
Comp Meter [Hr]		7152.0	6939.0	6705.0
Meter On Fluid	414.0	213.0	234.0	782.0
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	5W-40	5W-40	5W-40	5W-40
Fluid Type	DELO 400 XSP	DELO 400 XSP	DELO 400 XSP	DELO 400 XSP
Fluid Change	Y	N	Y	Y
Filter Change	Y	N	Y	Y

**CONDITION / CONTAMINATION**

		31-Jul-25	09-Jun-25	30-Sep-24	16-Jun-24
<b>VISCOSITY (Centistokes)</b>					
V100	Viscosity at 100 C	14.50	14.90	14.90	14.10
<b>VISCOSITY (Centistokes)</b>					
V40	Viscosity at 40 C	88.40	90.30	92.60	91.30
<b>VISCOSITY INDEX</b>					
VI	Viscosity Index	171	173	169	159

**WEAR LEVELS / ADDITIVES**

		31-Jul-25	09-Jun-25	30-Sep-24	16-Jun-24
<b>ELEMENTAL ANALYSIS (ppm)</b>					
Na	Sodium	8	5	6	8
K	Potassium	4	2	3	4
Si	Silicon	5	5	5	6
Al	Aluminum	4	2	3	6
Fe	Iron	21	10	14	42
Cr	Chromium	1	0	1	2
Pb	Lead	4	0	2	22
Cu	Copper	2	1	1	3
Sn	Tin	0	0	0	0
Ni	Nickel	0	0	0	0
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	936	860	841	916
Ca	Calcium	1594	1383	1507	1695
Mg	Magnesium	711	622	616	630
Ba	Barium	0	0	0	0
B	Boron	27	53	55	22
Mo	Molybdenum	2	0	2	1
P	Phosphorus	734	701	712	786

**INFRARED (UFM)**

		31-Jul-25	09-Jun-25	30-Sep-24	16-Jun-24
ST	Soot	42	20	23	64
OXI	Oxidation	17	14	14	20
SUL	Sulfate By-Product	22	20	20	26
	Sulfur Products	22	20	20	26
NJT	Nitration	11	10	9	13

**ANTIFREEZE**

		31-Jul-25	09-Jun-25	30-Sep-24	16-Jun-24
A	Antifreeze	N	N	N	N

**FUEL**

		31-Jul-25	09-Jun-25	30-Sep-24	16-Jun-24
F	Fuel	N	N	N	N

**WATER**

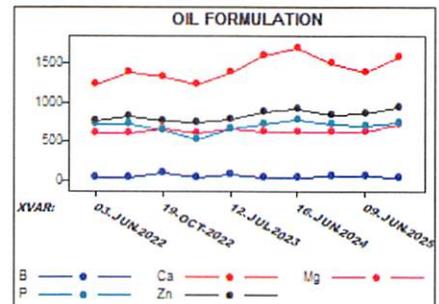
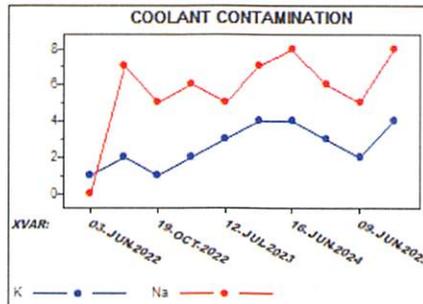
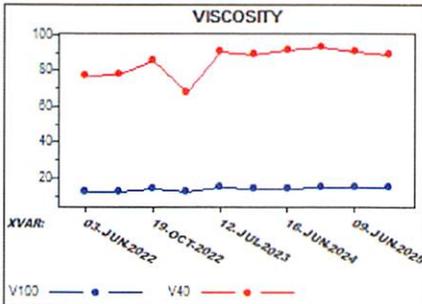
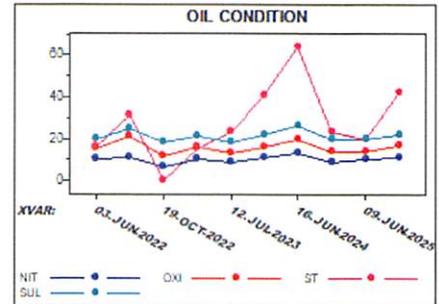
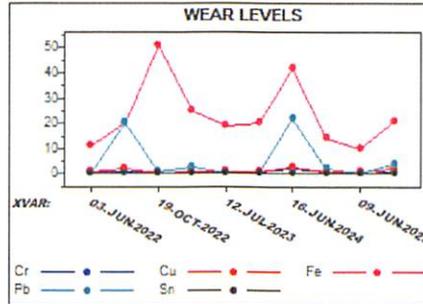
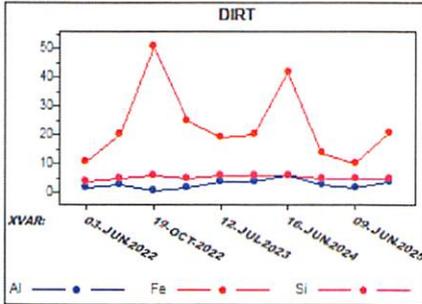
		31-Jul-25	09-Jun-25	30-Sep-24	16-Jun-24
W	Water	N	N	N	N

ENGINE  
 SERIAL NUMBER: RAD01038  
 EQUIP NUM: 7842  
 CAT D6T

N030-55217-0269



No Action Required



Report Comment

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