

208-15
BLUE-MAR



N03C LAB under N030 -

RIGHT DRIVE REAR

EQUIP NUM: 8946

SERIAL NUMBER: DY903812

RIGHT

CAT 299D3

No Comment

N030-53209-0695

LABEL#: 201209998

SAMPLE SHIP TIME (days) : 7

PIDHERNEYS INC

RECEIVED DATE: 28-Jul-23

Interpreted On: 31-Jul-23

ELEVATED IRON MAY BE SOURCED TO BEARINGS; GEARS; SPLINES; SHAFTS; HOUSING; NON-MECHANICAL ORIGIN. SILICON (TYPICALLY DIRT) LEVEL APPEARS HIGH. OTHER READINGS APPEAR TO BE NORMAL. CHANGE OIL. RESAMPLE TO MONITOR.

SAMPLE INFORMATION

	21-Jul-23	14-May-23	19-Jan-22
Sampled Date	21-Jul-23	14-May-23	19-Jan-22
Sample Id	N030-53209-0695	N030-53139-0224	N030-52024-0505
Lab Date	28-Jul-23	19-May-23	24-Jan-22
Meter [Hr]	2077.0	1752.0	504
Meter On Fluid	325.0	1248.0	500
Fluid Brand	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	80W-90	80W-90	80W-90
Fluid Type	DELO GEAR EP-5	DELO GEAR EP-5	
Fluid Change	Y	Y	Y
Filter Change	N	N	N

CONDITION / CONTAMINATION

		21-Jul-23	14-May-23	19-Jan-22
VISCOSITY (Centistokes)				
V100	Viscosity at 100 C	14.10	14.20	14.00

V40	Viscosity at 40 C	128.8	132.5	132.6
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VISCOSITY INDEX		21-Jul-23	14-May-23	19-Jan-22
VI	Viscosity Index	108	105	103

INFRARED (UFM)		21-Jul-23	14-May-23	19-Jan-22
ST	Soot	0	0	0
OXI	Oxidation	4	4	4
SUL	Sulfur Products	14	15	14
NIT	Nitration	3	3	3

WATER		21-Jul-23	14-May-23	19-Jan-22
W	Water	N	N	N

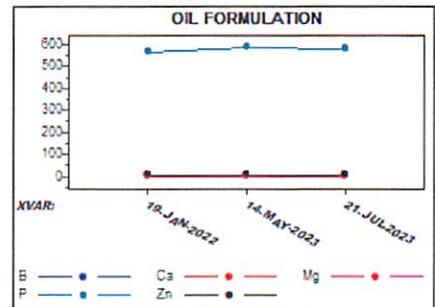
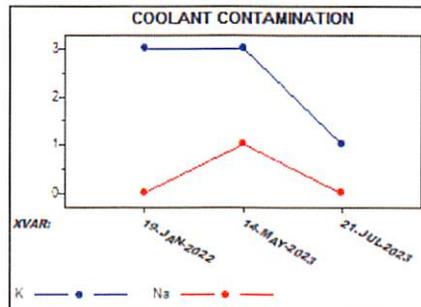
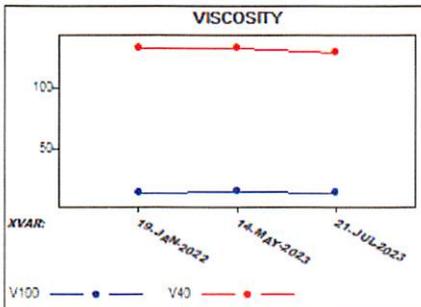
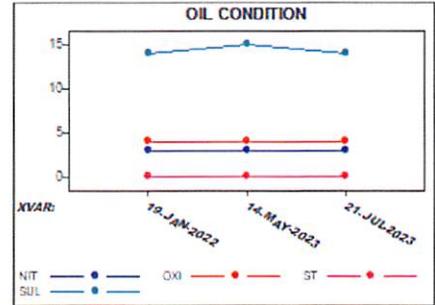
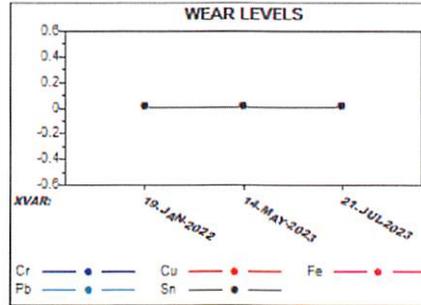
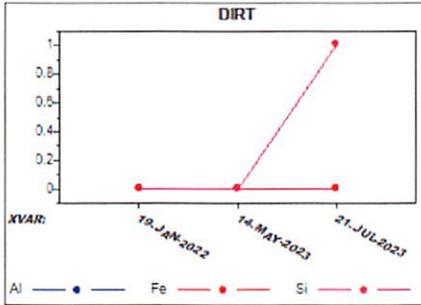
WEAR LEVELS / ADDITIVES

		21-Jul-23	14-May-23	19-Jan-22
ELEMENTAL ANALYSIS (ppm)				
Na	Sodium	0	1	0
K	Potassium	1	3	3
Si	Silicon	1	0	0
Al	Aluminum	0	0	0
Fe	Iron	0	0	0
Cr	Chromium	0	0	0
Pb	Lead	0	0	0
Cu	Copper	0	0	0
Sn	Tin	0	0	0
Ni	Nickel	0	0	0
Ag	Silver	0	0	0
Ti	Titanium	0	0	0
V	Vanadium	0	0	0
Zn	Zinc	2	1	1
Ca	Calcium	3	0	1
Mg	Magnesium	0	0	0
Ba	Barium	0	0	0
B	Boron	1	1	4
Mo	Molybdenum	0	0	0
P	Phosphorus	576	583	567

CLEANLINESS

		21-Jul-23	14-May-23	19-Jan-22
PARTICLE COUNT				
ISO	ISO Code Rating	20/18/13	18/15/12	16/14/9
4μ	4μ	8244	1412	464
6μ	6μ	1674	315	92
10μ	10μ	231	74	14
14μ	14μ	64	31	4
18μ	18μ	27	17	2
21μ	21μ	18	10	1
38μ	38μ	2	1	0
50μ	50μ	1	0	0

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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VAL DRIVE REAR LEFT

EQUIP NUM: 8946

SERIAL NUMBER: DY903812

N030-53209-0698

LABEL#: 201209737

SAMPLE SHIP TIME (days) : 7

PIDHERNEYS INC

RECEIVED DATE: 28-Jul-23

CAT 299D3

No Comment

Interpreted On: 31-Jul-23

ALL WEAR METAL READINGS TESTED AT 0PPM. A NEW OIL MAY HAVE BEEN SUBMITTED FOR ANALYSIS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

	21-Jul-23	14-May-23	19-Jan-22
Sampled Date	21-Jul-23	14-May-23	19-Jan-22
Sample Id	N030-53209-0698	N030-53139-0225	N030-52024-0504
Lab Date	28-Jul-23	19-May-23	24-Jan-22
Meter [Hr]	2077.0	1752.0	504
Meter On Fluid	325.0	1248.0	500
Fluid Brand	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	80W-90	80W-90	80W-90
Fluid Type	DELO GEAR EP-5	DELO GEAR EP-5	
Fluid Change	Y	Y	Y
Filter Change	N	N	N

CONDITION / CONTAMINATION

21-Jul-23 14-May-23 19-Jan-22

VISCOSITY (Centistokes)

VI	Viscosity at 100 C	14.10	14.20	13.80
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VISCOSITY (Centistokes)

V40	Viscosity at 40 C	127.8	133.3	131.3
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VISCOSITY INDEX

VI	Viscosity Index	109	104	101
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WEAR LEVELS / ADDITIVES

21-Jul-23 14-May-23 19-Jan-22

ELEMENTAL ANALYSIS (ppm)

	21-Jul-23	14-May-23	19-Jan-22
Na Sodium	0	1	0
K Potassium	2	3	3
Si Silicon	1	0	0
Al Aluminum	0	0	0
Fe Iron	0	0	0
Cr Chromium	0	0	0
Pb Lead	0	0	0
Cu Copper	0	0	0
Sn Tin	0	0	0
Ni Nickel	0	0	0
Ag Silver	0	0	0
Ti Titanium	0	0	0
V Vanadium	0	0	0
Zn Zinc	2	0	1
Ca Calcium	1	0	1
Mg Magnesium	0	0	0
Ba Barium	0	0	0
B Boron	3	1	2
Mo Molybdenum	0	0	0
P Phosphorus	568	583	479

INFRARED (UFM)

ST	Soot	0	0	0
OXI	Oxidation	4	4	4
SUL	Sulfur Products	14	15	15
NIT	Nitration	3	3	3

WATER

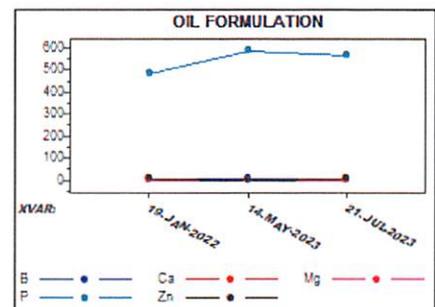
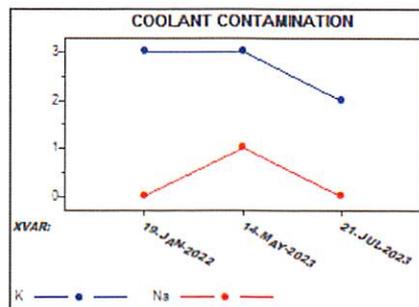
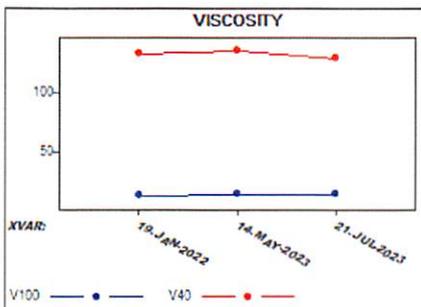
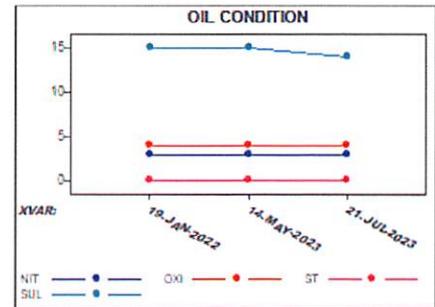
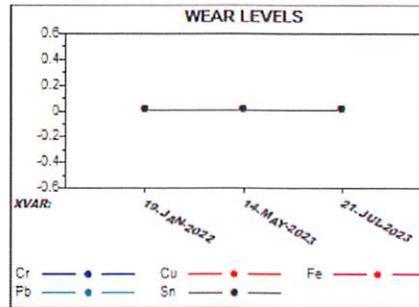
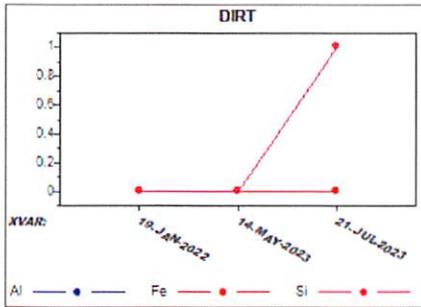
W	Water	N	N	N
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CLEANLINESS

21-Jul-23 14-May-23 19-Jan-22

PARTICLE COUNT

ISO	ISO Code Rating	20/18/13	17/15/11	16/14/9
4µ	4µ	7767	1246	611
6µ	6µ	1527	262	111
10µ	10µ	231	45	12
14µ	14µ	68	18	3
18µ	18µ	30	9	2
21µ	21µ	15	6	1
38µ	38µ	1	1	0
50µ	50µ	0	0	0



Report Comment

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HYDRAULIC SYSTEM

N03C-56030-0569
 LABEL#: 202111444
 SAMPLE SHIP TIME (days) : 14
PIDHERNEYS INC
 RECEIVED DATE: 30-Jan-26

EQUIP NUM: 8946

SERIAL NUMBER: DY903812

CAT 299D3



No Action Required

Interp By: Gregory Scribner
 Interpreted On: 03-Feb-26

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

SAMPLE INFORMATION

	16-Jan-26	18-Jun-25	21-Jul-23	14-May-23
Sampled Date	16-Jan-26	18-Jun-25	21-Jul-23	14-May-23
Sample Id	N03C-56030-0569	N030-55171-0514	N030-53209-0697	N030-53139-0223
Lab Date	30-Jan-26	20-Jun-25	28-Jul-23	19-May-23
Meter [Hr]	3715.0	2957.0	2077.0	1752.0
Meter On Fluid	3715.0	2957.0	2077.0	1752.0
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	N
Filter Change	Y	Y	Y	Y

PREVIOUS SAMPLE

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

CONDITION / CONTAMINATION

		16-Jan-26	18-Jun-25	21-Jul-23	14-May-23
VISCOSITY (Centistokes)					
V100	Viscosity at 100 C	6.700	6.800	6.700	6.700

V40	Viscosity at 40 C	37.40	37.30	36.90	37.60
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VISCOSITY INDEX

VI	Viscosity Index	137	142	140	136
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INFRARED (UFM)

ST	Soot	0	0	0	0
OXI	Oxidation	15	14	13	12
SUL	Sulfate By-Product	22	21	20	19
	Sulfur Products	22	21	20	19
NIT	Nitration	3	3	3	3

ANTIFREEZE

A	Antifreeze	N	N	N	N
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WATER

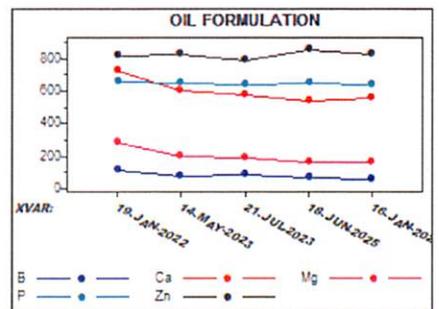
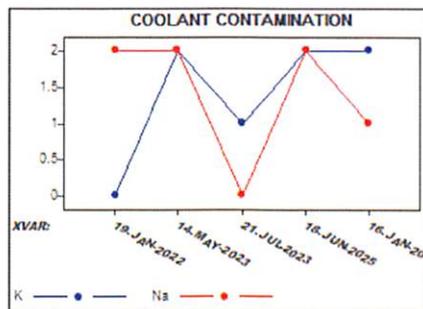
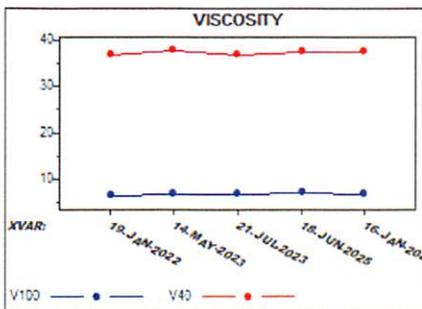
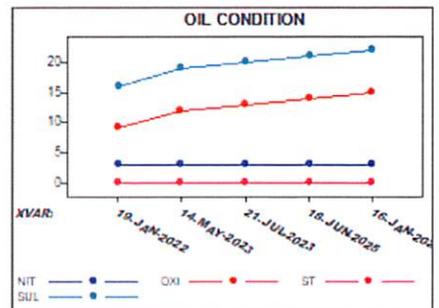
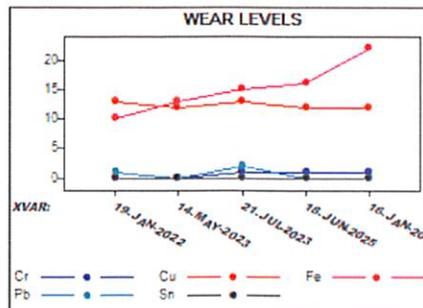
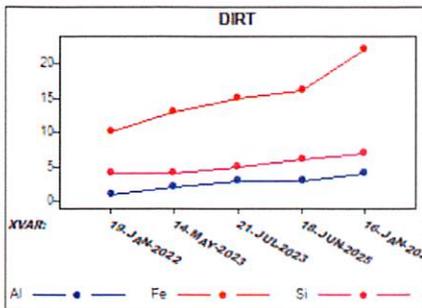
W	Water	N	N	N	N
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CLEANLINESS

		16-Jan-26	18-Jun-25	21-Jul-23	14-May-23
PARTICLE COUNT					
ISO	ISO Code Rating	23/19/11	22/16/11	18/17/12	20/18/14
4µ	4µ	41719	25107	2412	9465
6µ	6µ	4128	420	645	2434
10µ	10µ	113	62	106	506
14µ	14µ	18	17	25	144
18µ	18µ	5	8	9	47
21µ	21µ	3	4	4	22
38µ	38µ	1	1	0	1
50µ	50µ	0	0	0	1

WEAR LEVELS / ADDITIVES

		16-Jan-26	18-Jun-25	21-Jul-23	14-May-23
ELEMENTAL ANALYSIS (ppm)					
Na	Sodium	1	2	0	2
K	Potassium	2	2	1	2
Si	Silicon	7	6	5	4
Al	Aluminum	4	3	3	2
Fe	Iron	22	16	15	13
Cr	Chromium	1	1	1	0
Pb	Lead	0	0	2	0
Cu	Copper	12	12	13	12
Sn	Tin	0	0	0	0
Ni	Nickel	0	0	0	0
Ag	Silver	0	0	1	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	822	850	787	827
Ca	Calcium	554	535	568	603
Mg	Magnesium	159	156	190	192
Ba	Barium	0	0	0	0
B	Boron	59	63	79	70
Mo	Molybdenum	21	20	24	22
P	Phosphorus	639	645	639	644



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ENGINE

N03C-56030-0573
 LABEL#: 202112053
 SAMPLE SHIP TIME (days) : 14
PIDHERNEYS INC
 RECEIVED DATE: 30-Jan-26

EQUIP NUM: 8946

SERIAL NUMBER: DY903812

CAT 299D3



Monitor Compartment

SLIGHTLY ELEVATED SILICON CONTENT. ELEVATED IRON MAY BE ASSOCIATED WITH CAMSHAFT/CYLINDER LINERS/ PISTONS/RINGS; ROCKER ARMS; PUSH RODS AND CRANKSHAFT WEAR. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL. INSPECT OIL FILTER(S) FOR ANY EVIDENCE OF LARGER VISIBLE DEBRIS TRAPPED IN THE FILTER ELEMENT(S).

Interp By: Gregory Scribner
Interpreted On: 03-Feb-26

SAMPLE INFORMATION

	16-Jan-26	18-Jun-25	27-Aug-24	16-Feb-24
Sampled Date	16-Jan-26	18-Jun-25	27-Aug-24	16-Feb-24
Sample Id	N03C-56030-0573	N030-55171-0513	N030-54253-0663	N030-54051-1100
Lab Date	30-Jan-26	20-Jun-25	09-Sep-24	20-Feb-24
Meter [Hr]	3715.0	2957.0	2692.0	2571.0
Comp Meter [Hr]			2692.0	2571.0
Meter On Fluid	758.0	386.0	121.0	494.0
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	Y	N	Y
Filter Change	Y	Y	N	Y

PREVIOUS SAMPLE

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

CONDITION / CONTAMINATION

		16-Jan-26	18-Jun-25	27-Aug-24	16-Feb-24
VISCOSITY (Centistokes)					
V100	Viscosity at 100 C	15.30	15.10	15.00	14.10
VISCOSITY (Centistokes)					
V40	Viscosity at 40 C	101.5	88.60	88.90	86.60

WEAR LEVELS / ADDITIVES

	16-Jan-26	18-Jun-25	27-Aug-24	16-Feb-24	
ELEMENTAL ANALYSIS (ppm)					
Na	Sodium	2	4	3	3
K	Potassium	4	5	4	3
Si	Silicon	11	10	5	11
Al	Aluminum	3	2	1	2
Fe	Iron	52	21	10	22
Cr	Chromium	1	0	0	0
Pb	Lead	0	0	0	0
Cu	Copper	5	4	2	2
Sn	Tin	0	0	0	0
Ni	Nickel	1	0	0	0
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	1
V	Vanadium	0	0	0	0
Zn	Zinc	828	863	823	769
Ca	Calcium	1274	1335	1340	1315
Mg	Magnesium	730	712	770	713
Ba	Barium	0	0	0	0
B	Boron	42	54	83	41
Mo	Molybdenum	3	1	1	1
P	Phosphorus	688	683	688	662

VISCOSITY INDEX

VI	Viscosity Index	159	180	178	168
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INFRARED (UFM)

ST	Soot	42	19	3	18
OXI	Oxidation	30	22	16	22
SUL	Sulfate By-Product	29	25	21	25
	Sulfur Products	29	25	21	25
NIT	Nitration	14	12	9	12

ANTIFREEZE

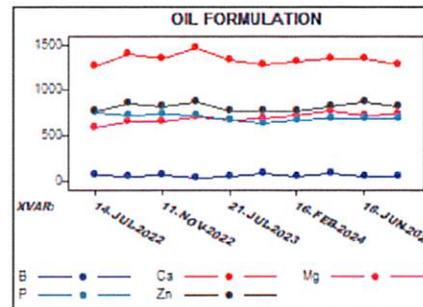
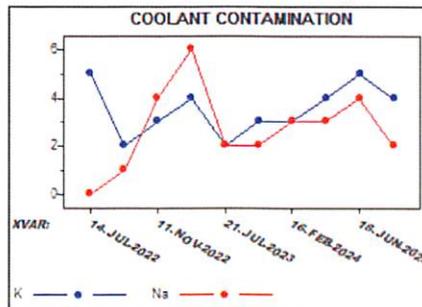
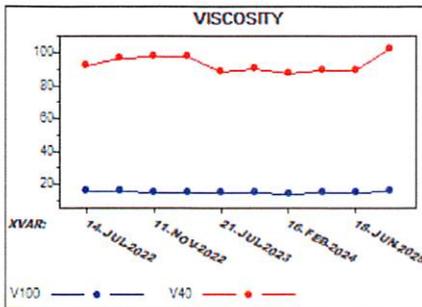
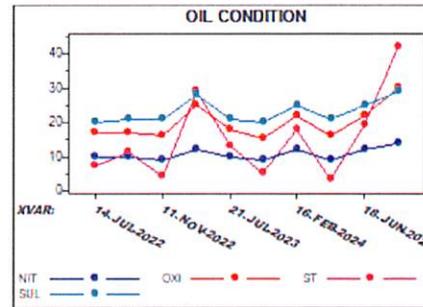
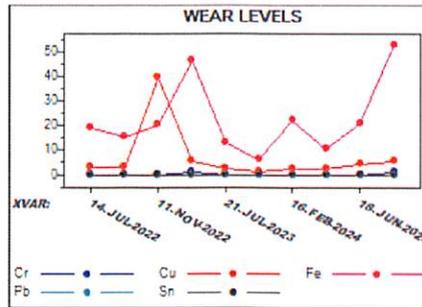
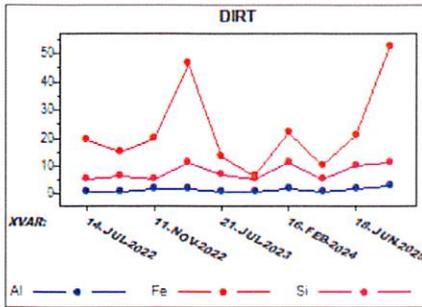
A	Antifreeze	N	N	N	N
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FUEL

F	Fuel	N	N	N	N
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WATER

W	Water	N	N	N	N
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