MOB I

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
TERANET [153743]
Machine Id
GENERATOR #1
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

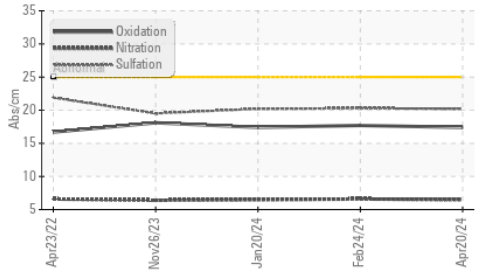
There is no indication of any contamination in the oil.

FLUID CONDITION

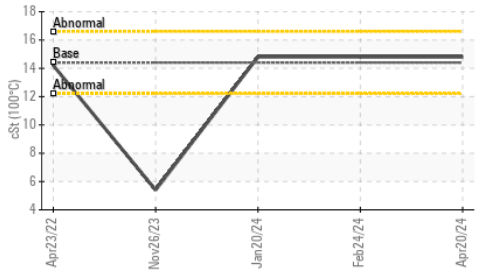
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CU0021208	CU0022279	CU0019967
Sample Date		Client Info		20 Apr 2024	24 Feb 2024	20 Jan 2024
Machine Age	hrs	Client Info		0	233	232
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	---
Iron	ppm	ASTM D5185(m)	>90	2	3	2
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	23	23	23
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	6	6	6
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.5	6.6	6.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	20.3	20.2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>158	3	3	3
Boron	ppm	ASTM D5185(m)	250	44	44	44
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	46	46	46
Manganese	ppm	ASTM D5185(m)		<1	<1	0
Magnesium	ppm	ASTM D5185(m)	450	806	797	804
Calcium	ppm	ASTM D5185(m)	3000	1153	1162	1167
Phosphorus	ppm	ASTM D5185(m)	1150	706	691	701
Zinc	ppm	ASTM D5185(m)	1350	805	814	815
Sulfur	ppm	ASTM D5185(m)	4250	1928	2024	1933
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.4	17.7	17.4
Visc @ 40°C	cSt	ASTM D7279(m)	115	113	113	112
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.8	14.8	14.8
Viscosity Index (VI)	Scale	ASTM D2270*	126	135	135	136

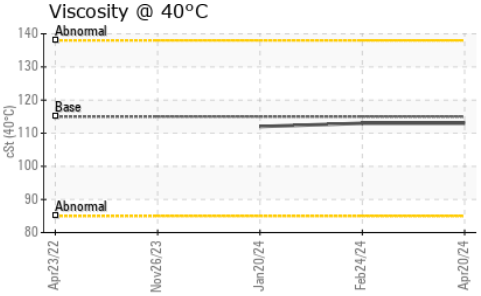
FT-IR (Direct Trend)



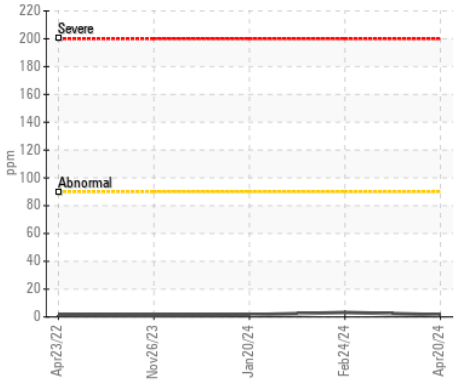
Viscosity @ 100°C



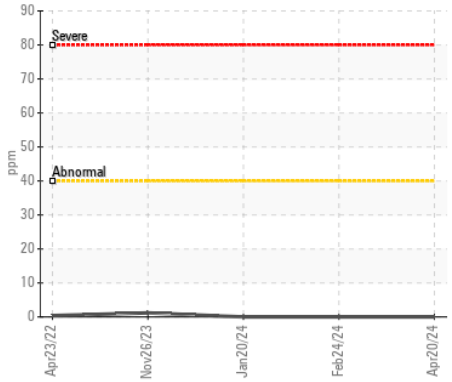
Viscosity @ 40°C



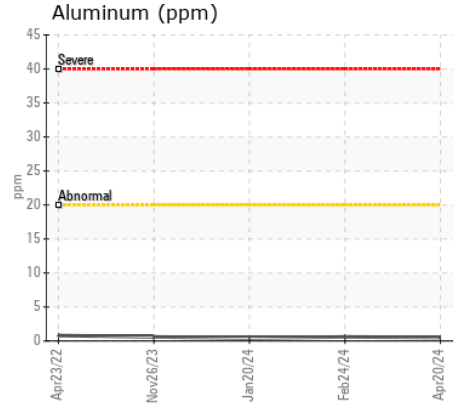
Iron (ppm)



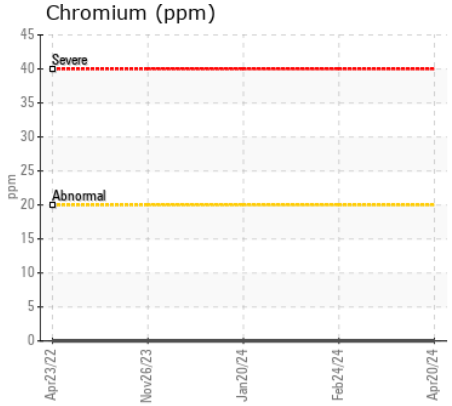
Lead (ppm)



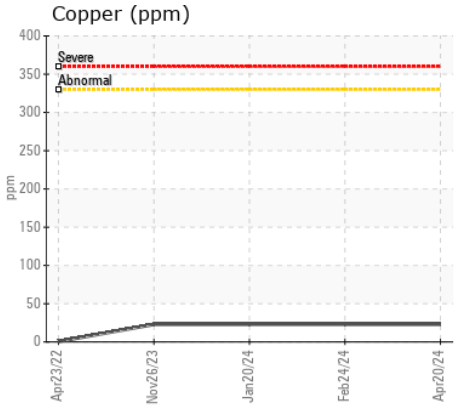
Aluminum (ppm)



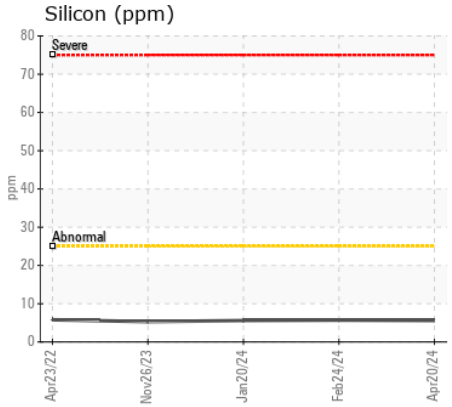
Chromium (ppm)



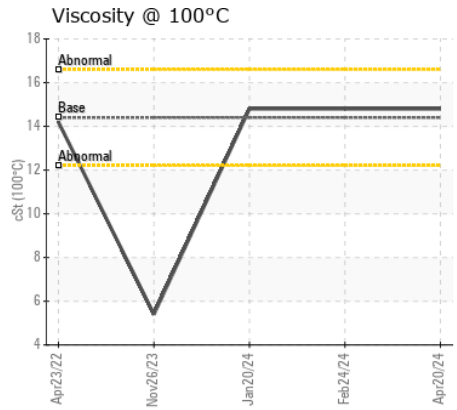
Copper (ppm)



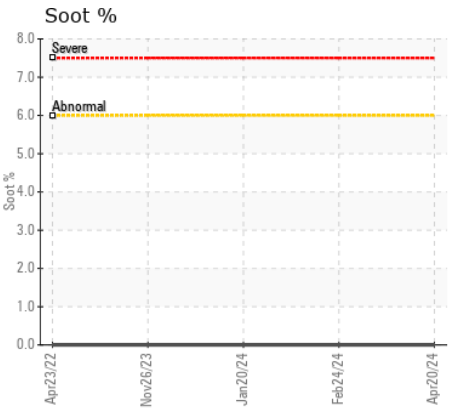
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: CU0021208	**Received**	: 10 Jun 2024
Lab Number	: 02640850	**Tested**	: 10 Jun 2024
Unique Number	: 5798389	**Diagnosed**	: 10 Jun 2024 - Wes Davis
Test Package	: MOB 1 (Additional Tests: KV40, VI)		

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

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