



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Haul Truck
Machine Id
HT4502
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083349	PC0074880	PC0048753
Sample Date		Client Info		09 Feb 2024	23 Nov 2023	26 Sep 2022
Machine Age	hrs	Client Info		7882	6729	1944
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	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	14	15	5
Chromium	ppm	ASTM D5185(m)	>20	0	<1	0
Nickel	ppm	ASTM D5185(m)	>2	<1	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	2	2	1
Lead	ppm	ASTM D5185(m)	>40	1	3	0
Copper	ppm	ASTM D5185(m)	>330	6	28	<1
Tin	ppm	ASTM D5185(m)	>15	<1	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

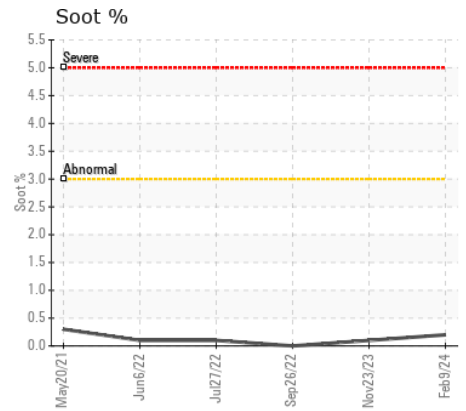
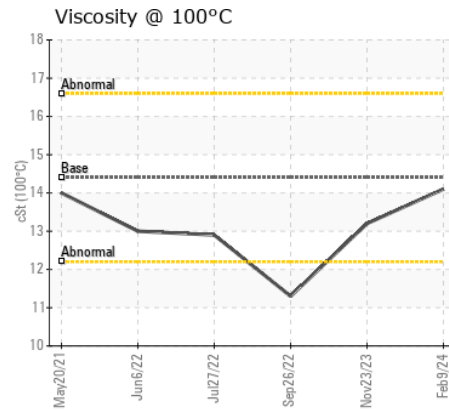
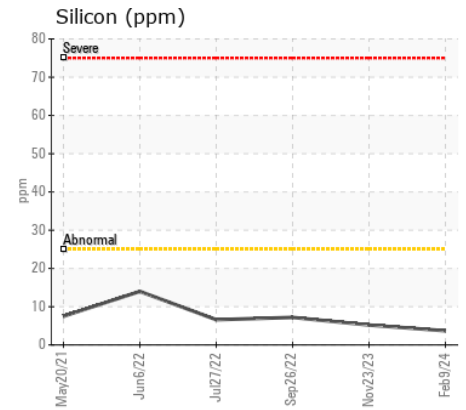
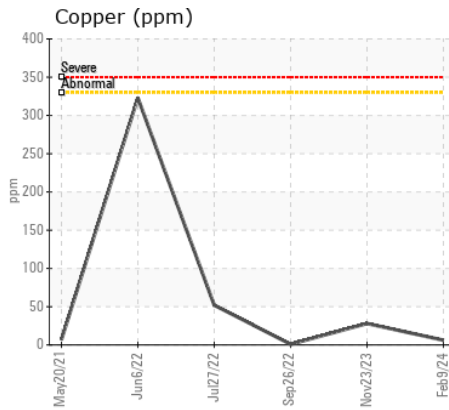
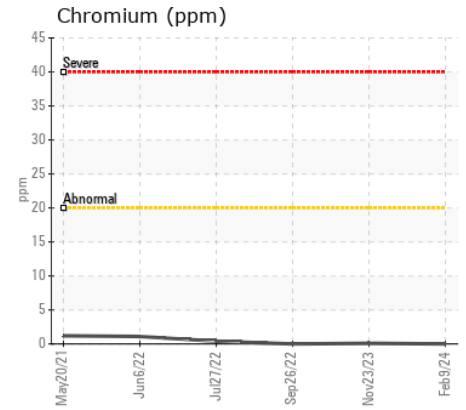
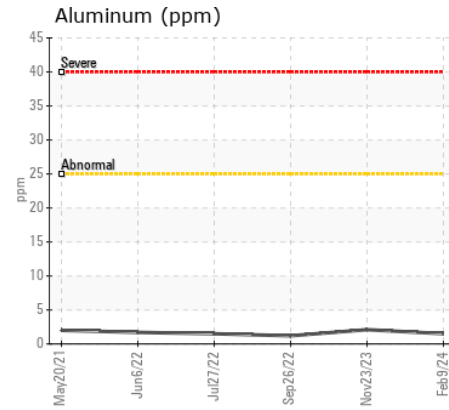
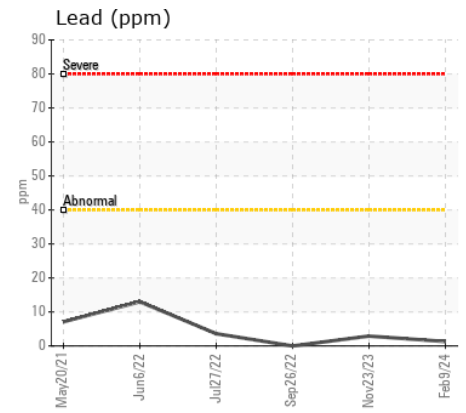
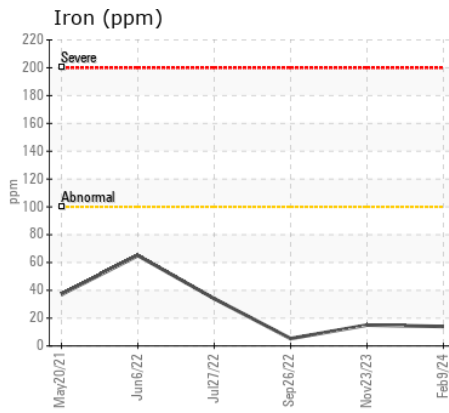
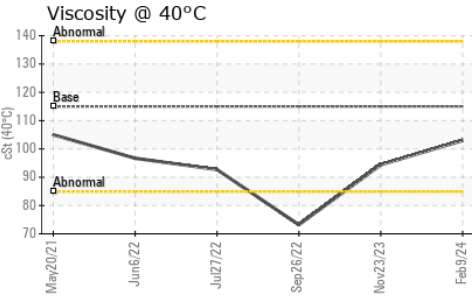
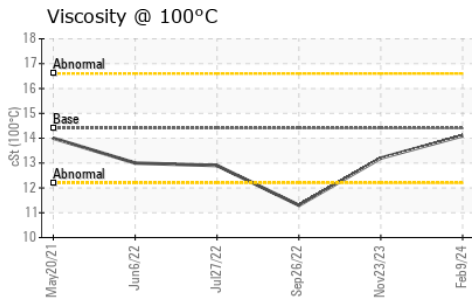
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	5	7
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel		WC Method	>5	<1.0	<1.0	0.7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.2	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	5.4	7.5	5.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.4	20.8	21.9
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>158	1	2	3
Boron	ppm	ASTM D5185(m)	250	<1	2	43
Barium	ppm	ASTM D5185(m)	10	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	57	60	36
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	450	957	987	463
Calcium	ppm	ASTM D5185(m)	3000	1047	1084	1671
Phosphorus	ppm	ASTM D5185(m)	1150	1021	999	980
Zinc	ppm	ASTM D5185(m)	1350	1181	1214	1059
Sulfur	ppm	ASTM D5185(m)	4250	2769	2466	2594
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.5	17.1	18.4
Visc @ 40°C	cSt	ASTM D7279(m)	115	103	94.4	▲ 73.2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.1	13.2	▲ 11.3
Viscosity Index (VI)	Scale	ASTM D2270*	126	139	138	146



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083349 **Received** : 04 Mar 2024
Lab Number : 02619471 **Tested** : 04 Mar 2024
Unique Number : 5736581 **Diagnosed** : 04 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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 CA
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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.