MOB I LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
ST250
Component
Diesel Engine
Fluid
PETRO CANADA DURON UHP 5W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

WEAR

An increase in the chromium level is noted. All other component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

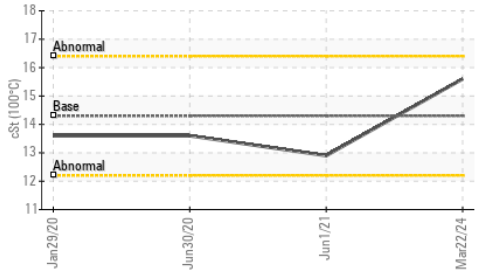
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0082693	PC0047889	PC0026252
Sample Date		Client Info		22 Mar 2024	01 Jun 2021	30 Jun 2020
Machine Age	hrs	Client Info		3677	2640	2165
Oil Age	hrs	Client Info		0	2165	0
Filter Age	hrs	Client Info		0	2165	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	28	9	6
Chromium	ppm	ASTM D5185(m)	>20	17	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
Titanium	ppm	ASTM D5185(m)		<1	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	8	2	2
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	4	<1	<1
Tin	ppm	ASTM D5185(m)	>15	1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	13	4	5
Potassium	ppm	ASTM D5185(m)	>20	1	<1	1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.4	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	13.7	9.6	8.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.4	20.4	23.9
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		5	4	<1
Boron	ppm	ASTM D5185(m)	65	46	43	61
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	65	69	58	61
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1160	1386	1104	1202
Calcium	ppm	ASTM D5185(m)	820	1042	878	876
Phosphorus	ppm	ASTM D5185(m)	1160	1124	1023	1128
Zinc	ppm	ASTM D5185(m)	1260	1439	1284	1316
Sulfur	ppm	ASTM D5185(m)	3000	2787	2897	3044
Oxidation	Abs/.1mm	ASTM D7414*	>25	24.9	19.2	17.2
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	99.2	79.6	81.5
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	15.6	12.9	13.6
Viscosity Index (VI)	Scale	ASTM D2270*	169	167	162	170

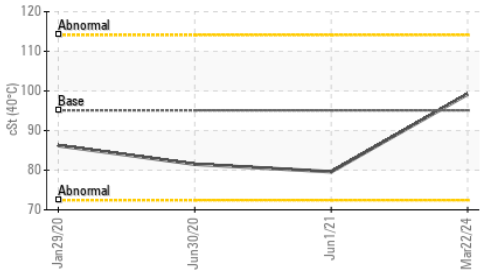
Report Id: GFL286 [WCAMIS] 02624908 (Generated: 03/27/2024 13:26:24) Rev: 1

Contact/Location: Shannon Abbott - GFL286

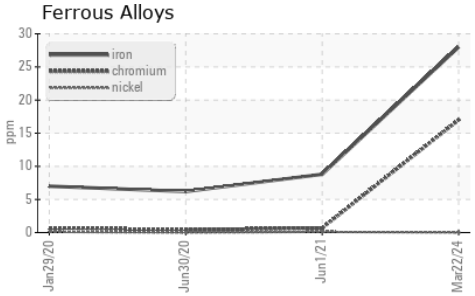
Viscosity @ 100°C



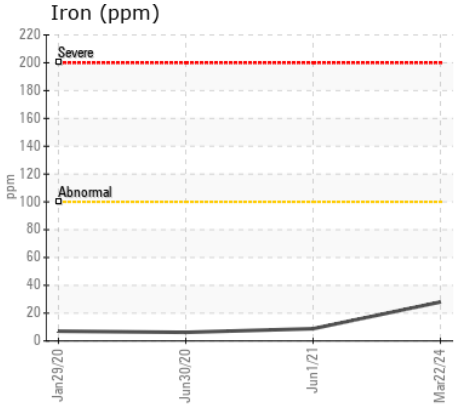
Viscosity @ 40°C



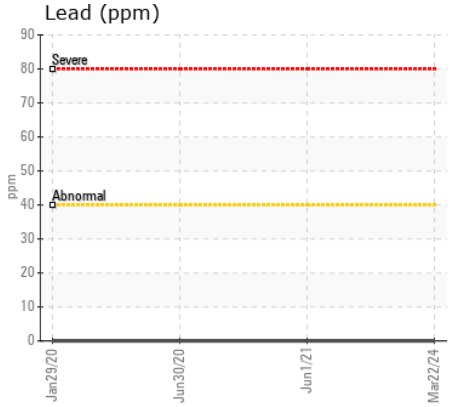
Ferrous Alloys



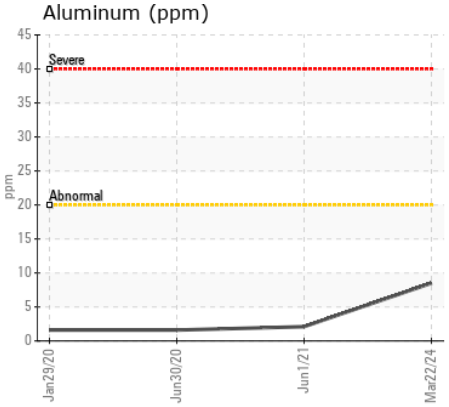
Iron (ppm)



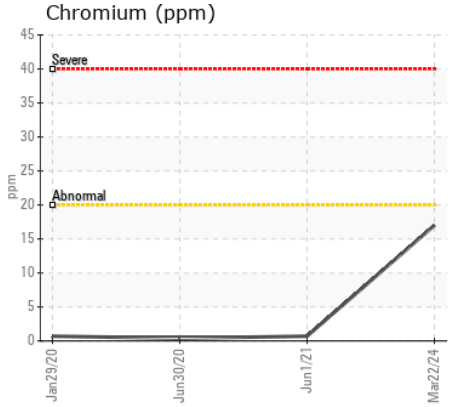
Lead (ppm)



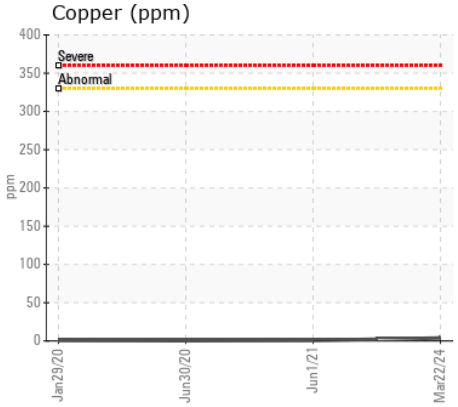
Aluminum (ppm)



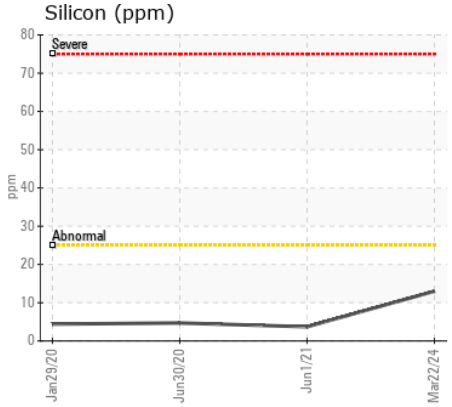
Chromium (ppm)



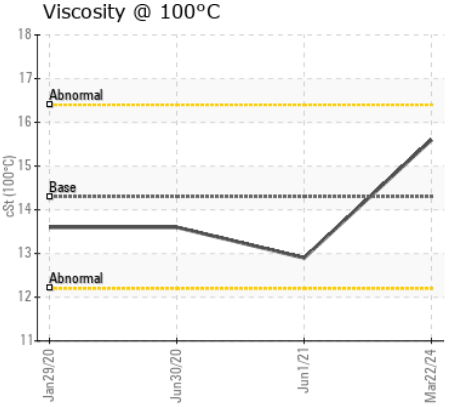
Copper (ppm)



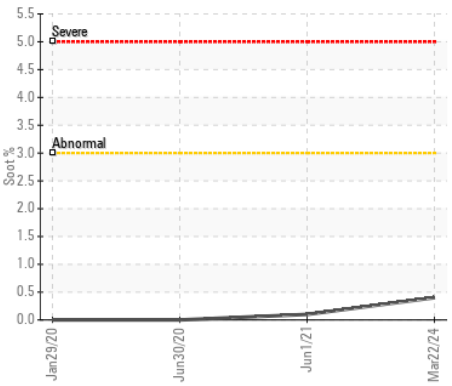
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0082693
Lab Number : 02624908
Unique Number : 5750027
Test Package : MOB 1 (Additional Tests: KV40, VI)

Received : 27 Mar 2024
Tested : 27 Mar 2024
Diagnosed : 27 Mar 2024 - Kevin Marson

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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