MOB LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Machine Id
1206
Component
Rear Center Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (24 LTR)

RECOMMENDATION

We advise that you check for the source of the coolant leak. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: Note almost 3400 km past regular service interval.)

WEAR

All component wear rates are normal.

CONTAMINATION

Test for glycol is positive. There is a light concentration of glycol present in the oil. There is a moderate concentration of dirt present in the oil.

FLUID CONDITION

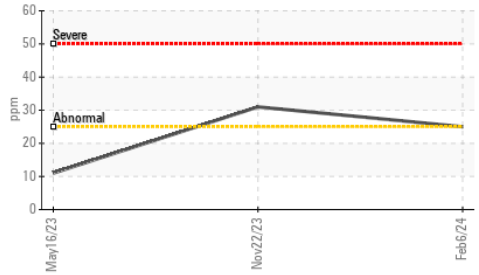
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0082735	PC0076690	PC0031585
Sample Date		Client Info		06 Feb 2024	22 Nov 2023	16 May 2023
Machine Age	kms	Client Info		674171	658778	628343
Oil Age	kms	Client Info		15393	12898	15362
Filter Age	kms	Client Info		15393	12898	15362
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>75	12	51	55
Chromium	ppm	ASTM D5185(m)	>5	<1	2	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>15	2	3	4
Lead	ppm	ASTM D5185(m)	>25	1	3	3
Copper	ppm	ASTM D5185(m)	>100	1	4	20
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	▲ 25	▲ 31	11
Potassium	ppm	ASTM D5185(m)	>20	4	8	9
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		▲ 0.031	0.0	0.0
Soot %	%	ASTM D7844*	>6	0.7	2.6	2.3
Nitration	Abs/cm	ASTM D7624*	>20	8.2	14.7	13.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.1	29.2	31.5
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		▲ 1060	▲ 1300	142
Boron	ppm	ASTM D5185(m)	0	24	15	50
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	92	112	8
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	920	957	35
Calcium	ppm	ASTM D5185(m)	1070	1035	1188	2519
Phosphorus	ppm	ASTM D5185(m)	1150	994	1016	1092
Zinc	ppm	ASTM D5185(m)	1270	1117	1241	1245
Sulfur	ppm	ASTM D5185(m)	2060	2699	2719	2899
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.2	19.2	23.8
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	111	99.5	110
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	15.1	13.6	14.5
Viscosity Index (VI)	Scale	ASTM D2270*	139	141	136	134

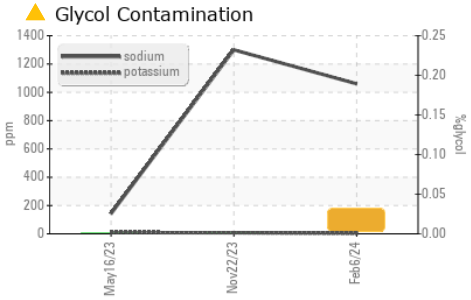
Report Id: STJNEW [WCAMIS] 02617603 (Generated: 02/26/2024 09:23:18) Rev: 1

Submitted By: Dan Finlay

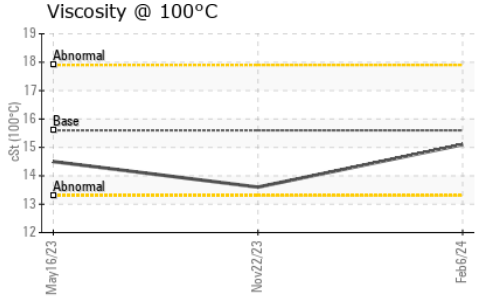
Silicon (ppm)



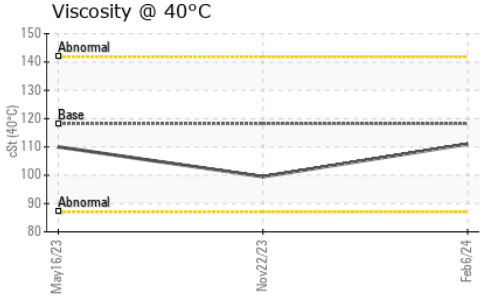
Glycol Contamination



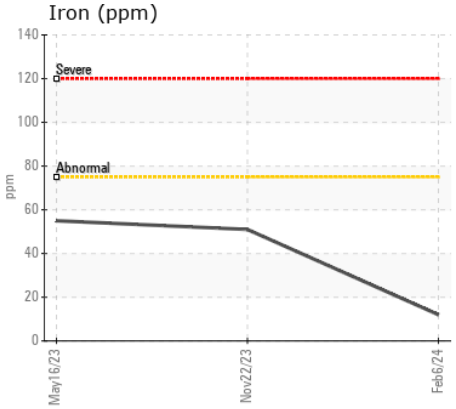
Viscosity @ 100°C



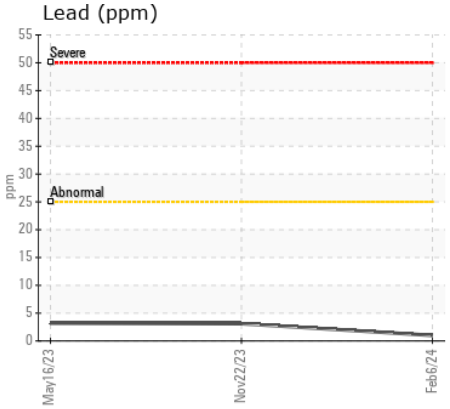
Viscosity @ 40°C



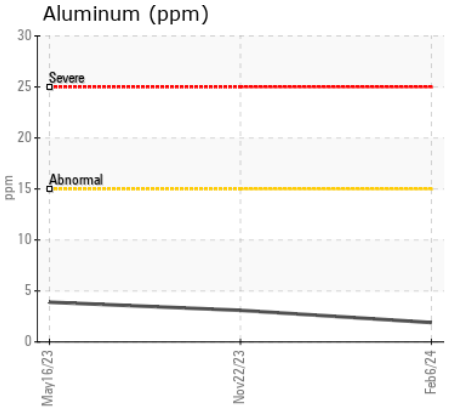
Iron (ppm)



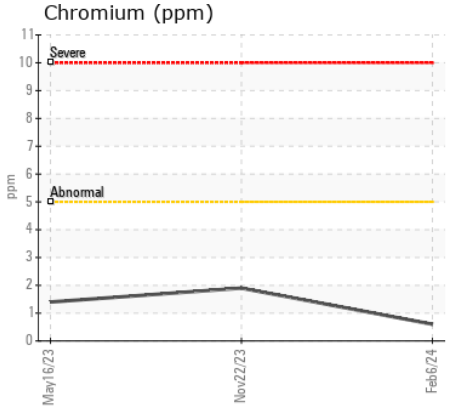
Lead (ppm)



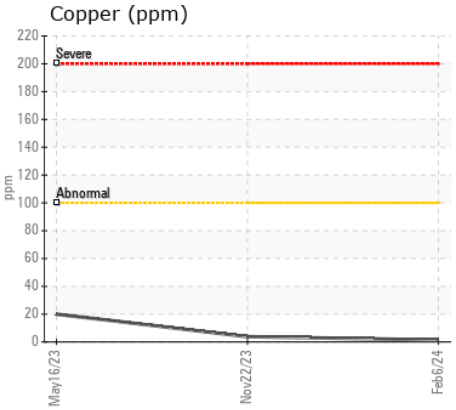
Aluminum (ppm)



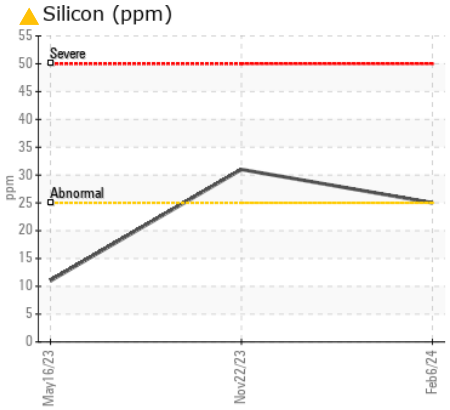
Chromium (ppm)



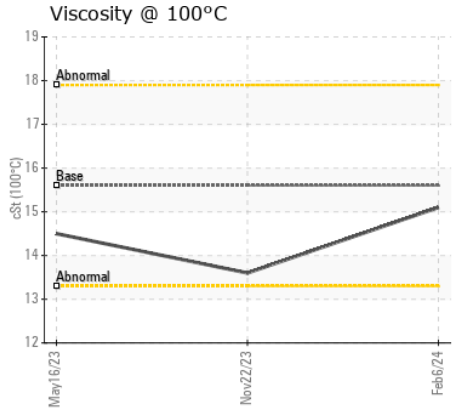
Copper (ppm)



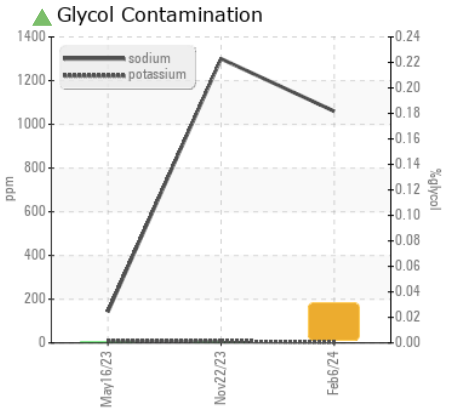
Silicon (ppm)



Viscosity @ 100°C



Glycol Contamination



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0082735 **Received** : 23 Feb 2024
Lab Number : 02617603 **Tested** : 23 Feb 2024
Unique Number : 5734713 **Diagnosed** : 26 Feb 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, 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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