MOB

POWERStation
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POWER GENERATION PRODUCTS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ATTENTION

Area
[85915]
Machine Id
26 PICKEREL RIVER RD FR BELL CANADA 3D0153698
Component
Diesel Engine
Fluid
ESSO XD-3 EXTRA SAE 40 (12 LTR)

RECOMMENDATION

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

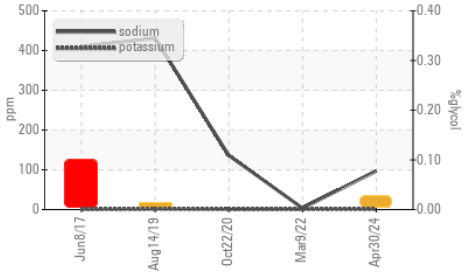
Test for glycol is positive. There is a light concentration of glycol present in the oil.

FLUID CONDITION

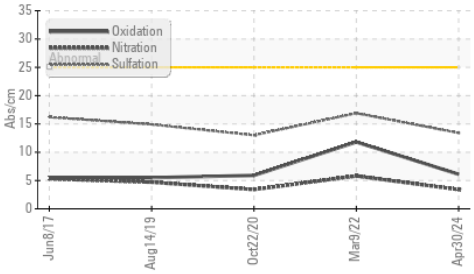
Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006163	PN0003034	PN0001764
Sample Date		Client Info		30 Apr 2024	09 Mar 2022	22 Oct 2020
Machine Age	hrs	Client Info		1172	1150	1113
Oil Age	hrs	Client Info		1159	0	0
Filter Age	hrs	Client Info		1159	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>200	5	5	3
Chromium	ppm	ASTM D5185(m)	>20	0	<1	0
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>30	<1	3	<1
Lead	ppm	ASTM D5185(m)	>30	1	1	<1
Copper	ppm	ASTM D5185(m)	>30	2	1	2
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>30	1	5	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		▲ 0.026	NEG	0.0
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	3.4	5.8	3.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	13.4	16.9	13.0
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		● 97	3	136
Boron	ppm	ASTM D5185(m)		22	59	16
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		● 30	64	32
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		● 188	340	75
Calcium	ppm	ASTM D5185(m)	2550	2207	1957	2228
Phosphorus	ppm	ASTM D5185(m)	1000	777	921	752
Zinc	ppm	ASTM D5185(m)	1120	909	1086	929
Sulfur	ppm	ASTM D5185(m)		2490	2704	2426
Oxidation	Abs/.1mm	ASTM D7414*	>25	6.1	11.8	5.9
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	12.9	13.6	13.8

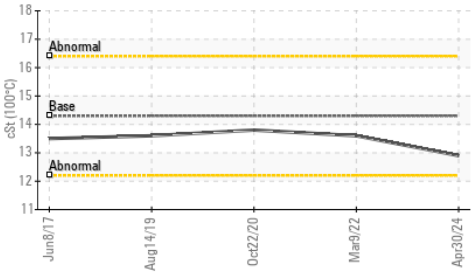
Glycol Contamination



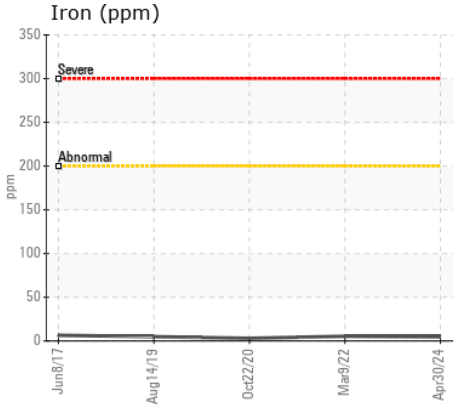
FT-IR (Direct Trend)



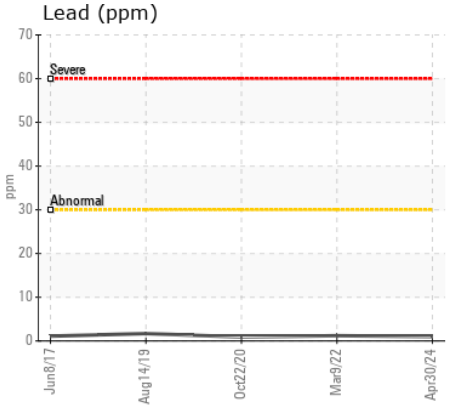
Viscosity @ 100°C



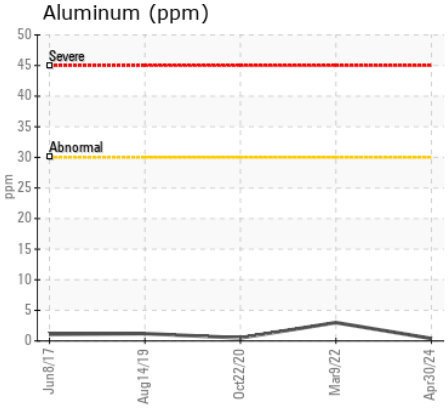
Iron (ppm)



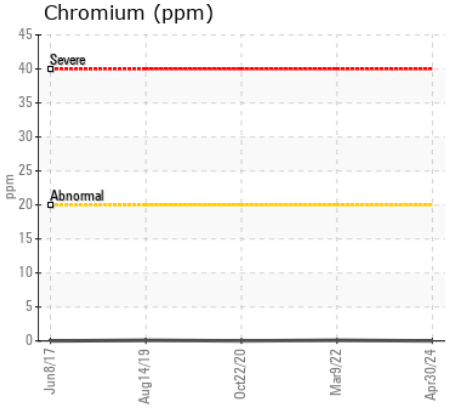
Lead (ppm)



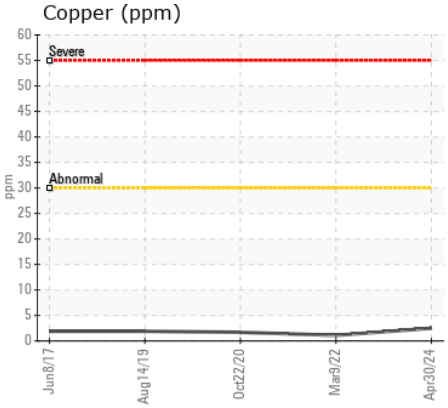
Aluminum (ppm)



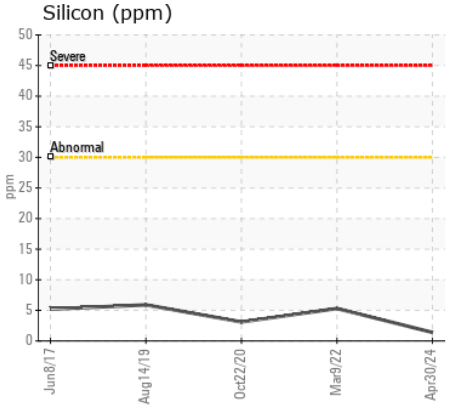
Chromium (ppm)



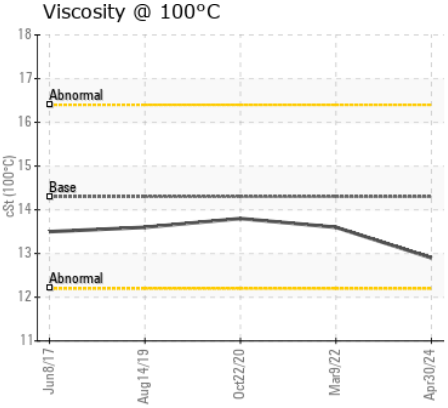
Copper (ppm)



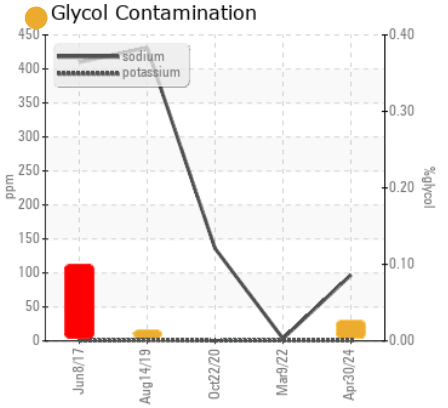
Silicon (ppm)



Viscosity @ 100°C



Glycol Contamination



CALA
ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006163 **Received** : 07 May 2024
Lab Number : 02633786 **Tested** : 07 May 2024
Unique Number : 5774939 **Diagnosed** : 07 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol)

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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