MOB

POWERStation
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POWER GENERATION PRODUCTS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[86509]
Machine Id
6300 EDWARDS DR MISSISSAUGA VIKING FIRE 03Z17545
Component
Rear Diesel Engine
Fluid
ESSO XD-3 EXTRA 15W40 (29 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

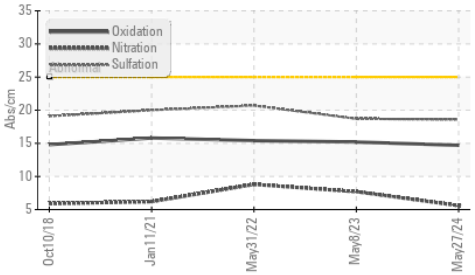
There is no indication of any contamination in the oil.

FLUID CONDITION

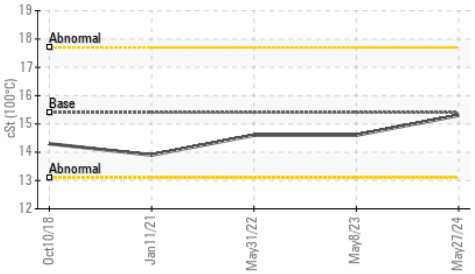
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006336	PN0004830	PN0003485
Sample Date		Client Info		27 May 2024	08 May 2023	31 May 2022
Machine Age	hrs	Client Info		602	577	552
Oil Age	hrs	Client Info		25	0	0
Filter Age	hrs	Client Info		25	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Not Changd	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	3	4	4
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<1	3	3
Lead	ppm	ASTM D5185(m)	>40	<1	2	1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	1	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	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.6	7.7	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.6	18.7	20.7
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>192	3	3	3
Boron	ppm	ASTM D5185(m)		5	47	71
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		58	75	85
Manganese	ppm	ASTM D5185(m)		0	<1	0
Magnesium	ppm	ASTM D5185(m)		930	316	76
Calcium	ppm	ASTM D5185(m)	3780	1179	2011	2193
Phosphorus	ppm	ASTM D5185(m)	1370	1004	1075	1062
Zinc	ppm	ASTM D5185(m)	1500	1192	1161	1166
Sulfur	ppm	ASTM D5185(m)	3800	2627	3075	3240
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.7	15.2	15.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	15.3	14.6	14.6

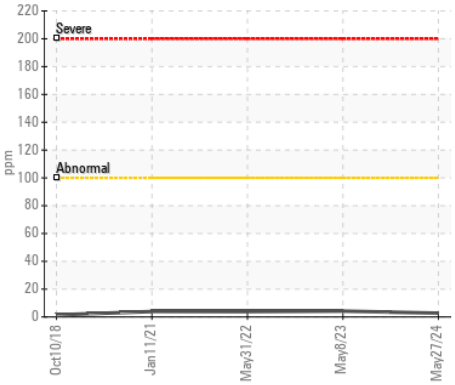
FT-IR (Direct Trend)



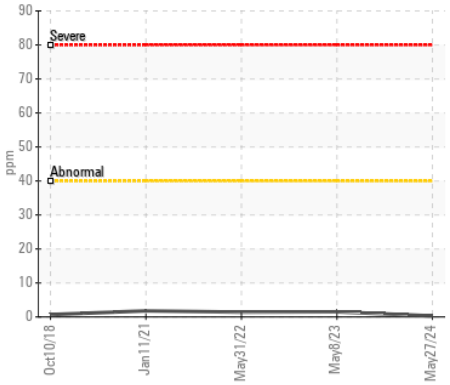
Viscosity @ 100°C



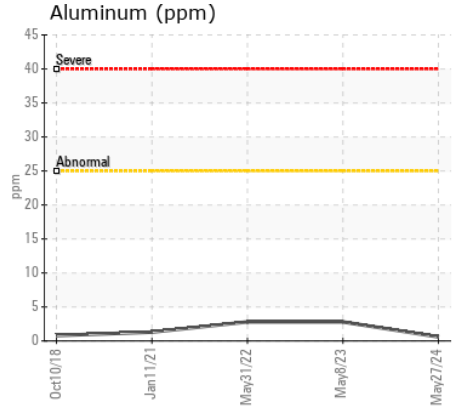
Iron (ppm)



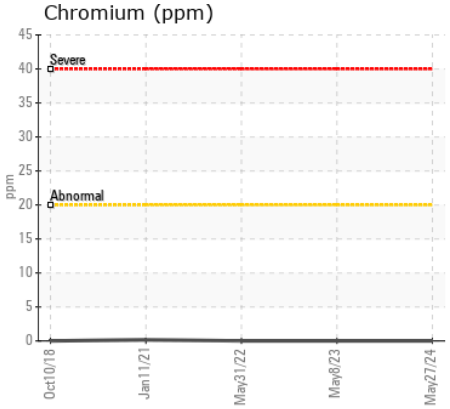
Lead (ppm)



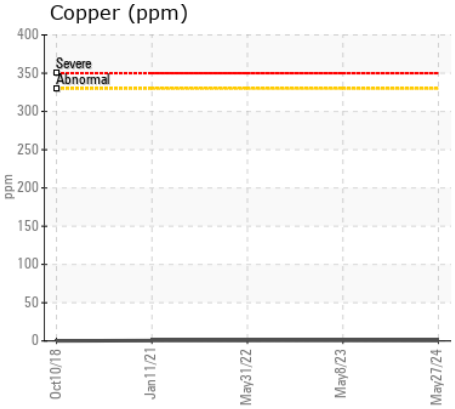
Aluminum (ppm)



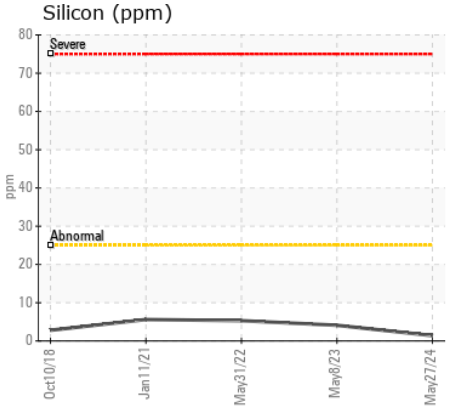
Chromium (ppm)



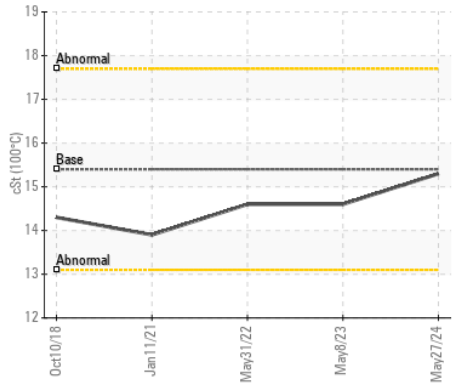
Copper (ppm)



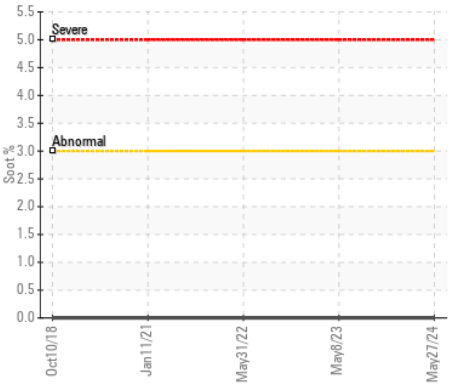
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006336
Lab Number : 02639589
Unique Number : 5788751
Test Package : MOB 1

Received : 04 Jun 2024
Tested : 05 Jun 2024
Diagnosed : 05 Jun 2024 - Wes Davis

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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