



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area

[450273761]

Machine Id

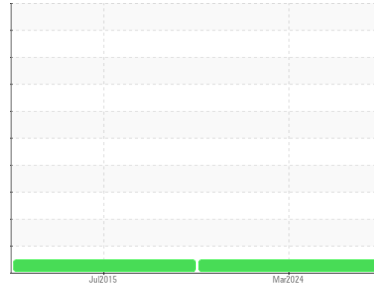
AFT FIRE PUMP B (S/N SAMPLE TAG #81020584)

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 15W40 (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC	PC	---
Sample Date	Client Info			09 Mar 2024	04 Jul 2015	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<1.0	<1.0	---
Water	WC Method	>0.2		NEG	NEG	---
Glycol	WC Method			NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	4	25	---
Chromium	ppm	ASTM D5185(m)	>20	0	1	---
Nickel	ppm	ASTM D5185(m)	>4	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	1	---
Silver	ppm	ASTM D5185(m)	>3	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	<1	2	---
Lead	ppm	ASTM D5185(m)	>40	1	14	---
Copper	ppm	ASTM D5185(m)	>330	12	261	---
Tin	ppm	ASTM D5185(m)	>15	0	3	---
Antimony	ppm	ASTM D5185(m)		0	2	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	<1	---

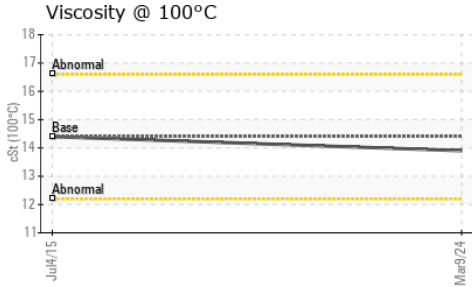
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	<1	2	---
Barium	ppm	ASTM D5185(m)	10	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	100	54	2	---
Manganese	ppm	ASTM D5185(m)		0	2	---
Magnesium	ppm	ASTM D5185(m)	450	908	55	---
Calcium	ppm	ASTM D5185(m)	3000	972	2245	---
Phosphorus	ppm	ASTM D5185(m)	1150	936	934	---
Zinc	ppm	ASTM D5185(m)	1350	1079	1145	---
Sulfur	ppm	ASTM D5185(m)	4250	2386	3270	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2	8	---
Sodium	ppm	ASTM D5185(m)	>158	2	6	---
Potassium	ppm	ASTM D5185(m)	>20	<1	2	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	5.0	8.5	---
Sulfation	Abs./1mm	ASTM D7415*	>30	18.0	21.3	---



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FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	13.9	19.1

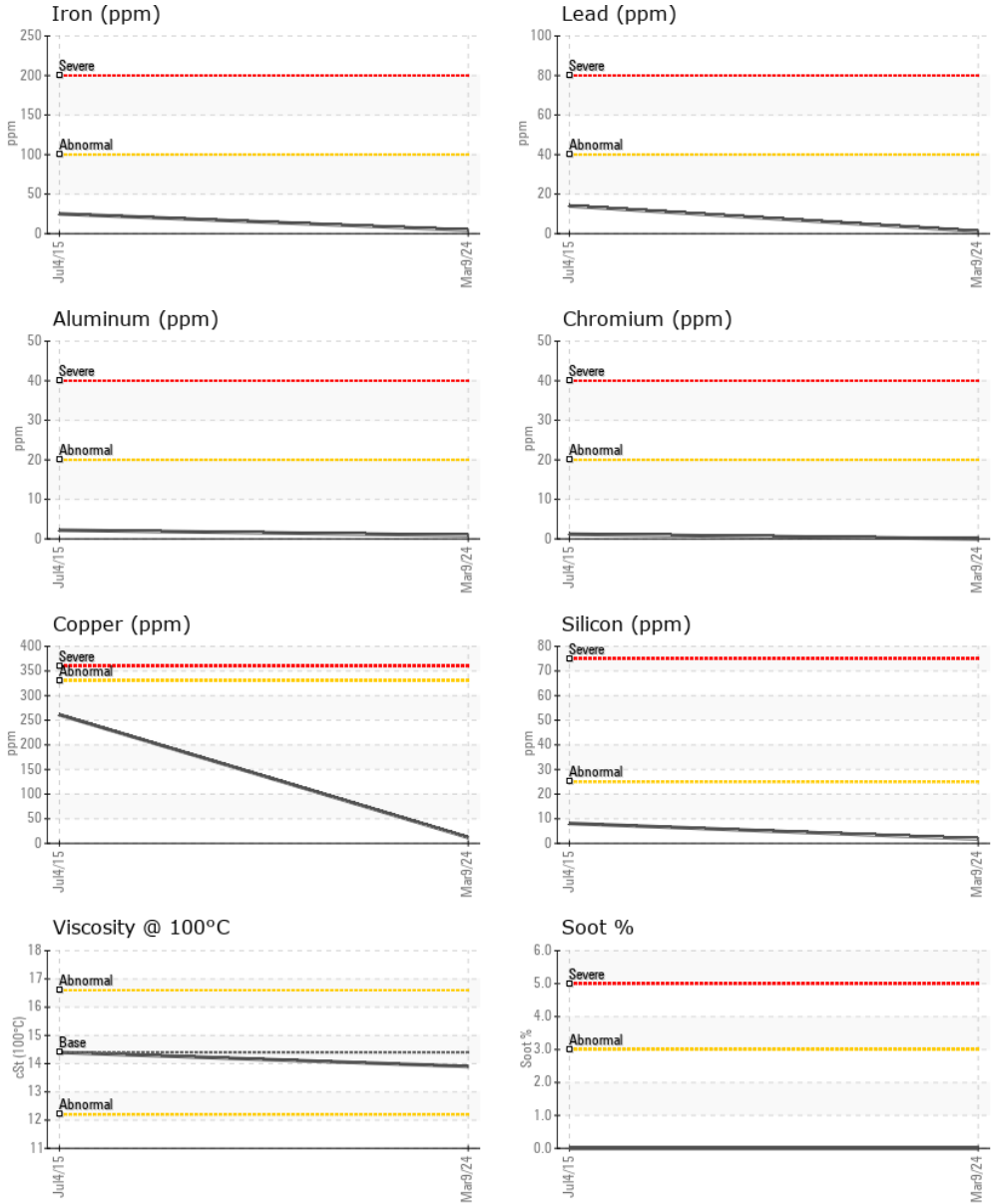
VISUAL

	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.9	14.4

GRAPHS



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Sample No. : WC

Lab Number : 02625643

Unique Number : 5750762

Test Package : MOB 1

Received : 01 Apr 2024

Tested : 01 Apr 2024

Diagnosed : 01 Apr 2024 - Kevin Marson

Suncor - Terra Nova Projects

Scotia Centre, 235 Water Street

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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.