



WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL

Machine Id
METSO 2.11 SCREEN
 Component
Diesel Engine
 Fluid
FLEET GUARD 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

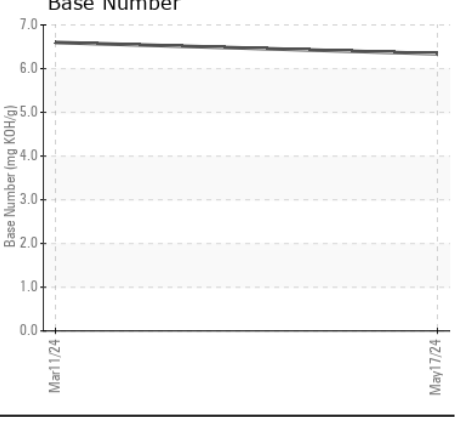
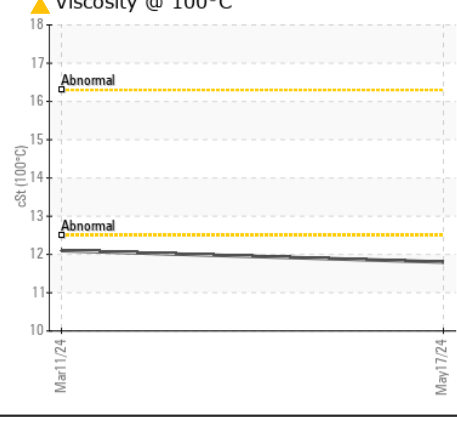
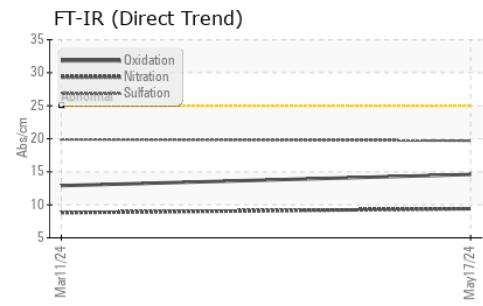
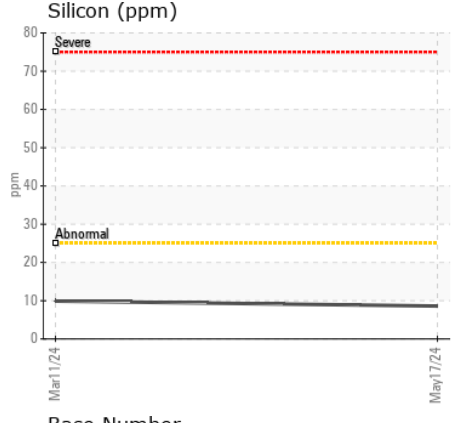
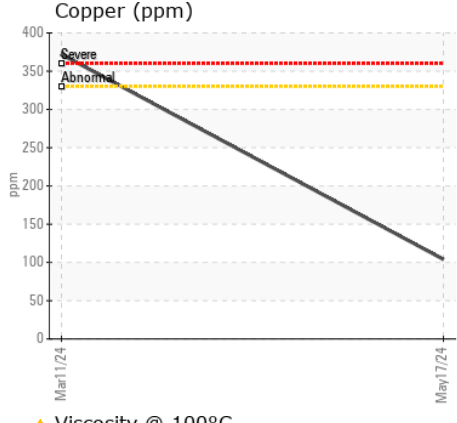
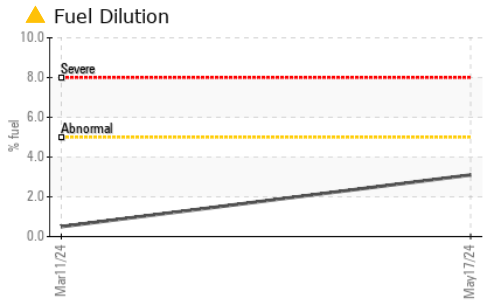
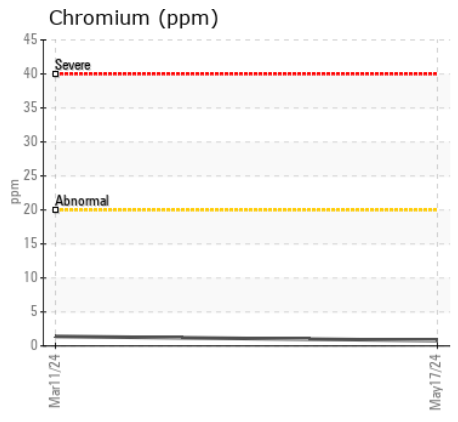
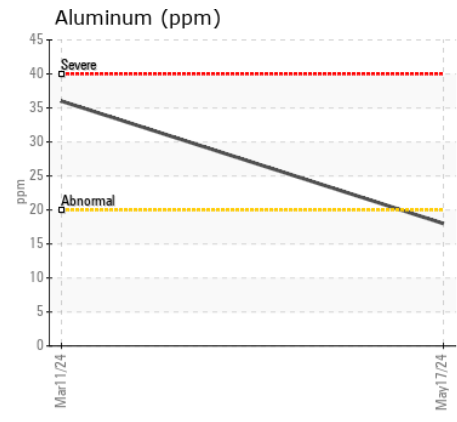
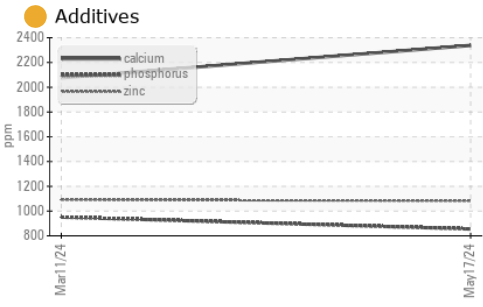
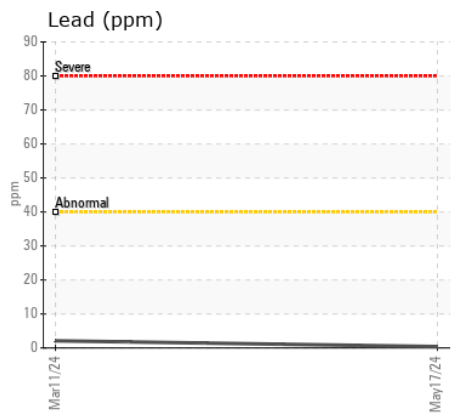
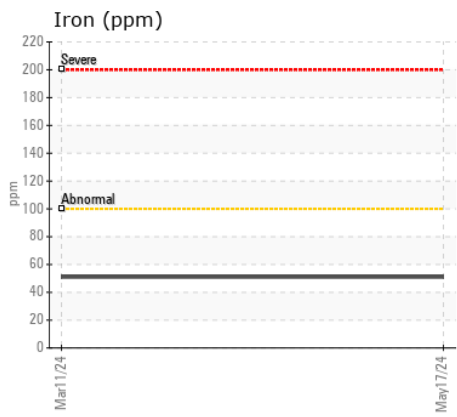
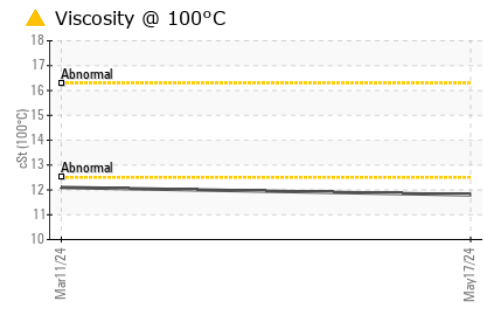
CONTAMINATION

Light fuel dilution occurring.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LP0001915	LP0001191	---
Sample Date		Client Info		17 May 2024	11 Mar 2024	---
Machine Age	hrs	Client Info		2885	2638	---
Oil Age	hrs	Client Info		247	250	---
Filter Age	hrs	Client Info		247	250	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---
<hr/>						
Iron	ppm	ASTM D5185m	>100	51	51	---
Chromium	ppm	ASTM D5185m	>20	<1	1	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	18	▲ 36	---
Lead	ppm	ASTM D5185m	>40	<1	2	---
Copper	ppm	ASTM D5185m	>330	104	▲ 372	---
Tin	ppm	ASTM D5185m	>15	0	2	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
<hr/>						
Silicon	ppm	ASTM D5185m	>25	9	10	---
Potassium	ppm	ASTM D5185m	>20	2	5	---
Fuel	%	ASTM D3524	>5	▲ 3.1	0.5	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.9	0.6	---
Nitration	Abs/cm	*ASTM D7624	>20	9.4	8.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	19.9	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---
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Sodium	ppm	ASTM D5185m		5	8	---
Boron	ppm	ASTM D5185m		5	6	---
Barium	ppm	ASTM D5185m		0	<1	---
Molybdenum	ppm	ASTM D5185m		10	17	---
Manganese	ppm	ASTM D5185m		<1	1	---
Magnesium	ppm	ASTM D5185m		● 102	167	---
Calcium	ppm	ASTM D5185m		● 2338	2076	---
Phosphorus	ppm	ASTM D5185m		855	951	---
Zinc	ppm	ASTM D5185m		1082	1091	---
Sulfur	ppm	ASTM D5185m		3620	3835	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	12.9	---
Base Number (BN)	mg KOH/g	ASTM D2896		6.34	6.60	---
Visc @ 100°C	cSt	ASTM D445		▲ 11.8	● 12.1	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LP0001915 **Received** : 14 Jun 2024
Lab Number : 06210898 **Tested** : 19 Jun 2024
Unique Number : 11083762 **Diagnosed** : 19 Jun 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

S.M. LORUSSO & SONS
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 WEST ROXBURY, MA
 US 02132
 Contact: MARK ERWIN
 merwin@smlorusso.com

Certificate L2367
 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)