



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
9132859
 Component
Diesel Engine
 Fluid
VALVOLINE 15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0035429	IL0034263	IL05887212
Sample Date		Client Info		10 Apr 2024	15 Oct 2023	02 Jun 2023
Machine Age	mls	Client Info		158696	126168	162008
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	29	19	43
Chromium	ppm	ASTM D5185m	>20	<1	<1	3
Nickel	ppm	ASTM D5185m	>4	0	<1	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	9	8	12
Lead	ppm	ASTM D5185m	>40	7	5	9
Copper	ppm	ASTM D5185m	>330	<1	1	3
Tin	ppm	ASTM D5185m	>15	<1	<1	2
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

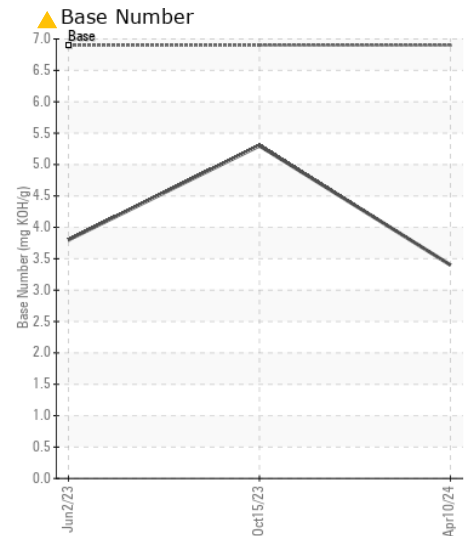
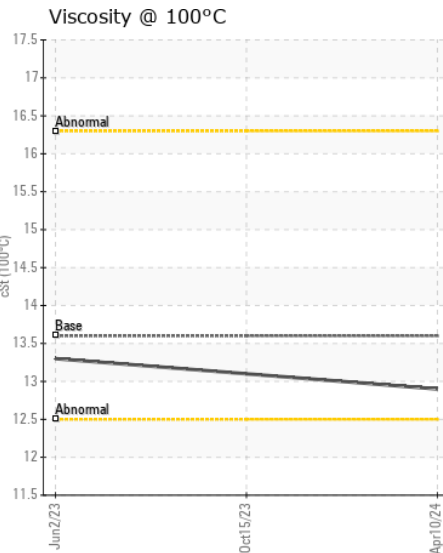
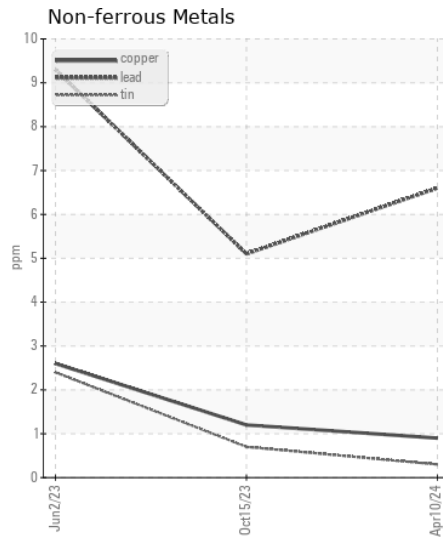
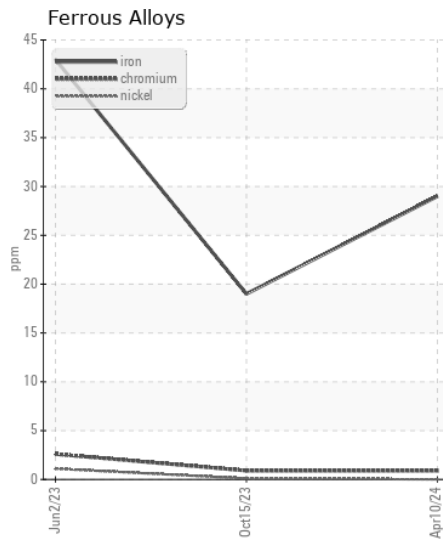
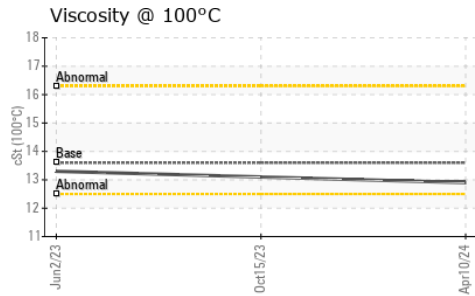
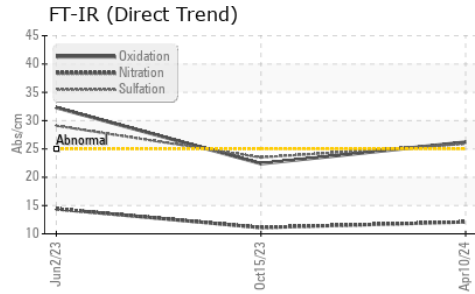
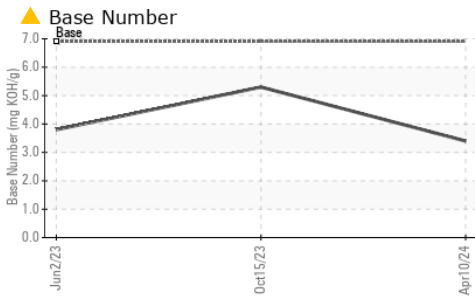
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	6	9
Potassium	ppm	ASTM D5185m	>20	24	24	38
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	0.4	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	12.1	11.1	14.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.9	23.5	29.1
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN level is low.

Sodium	ppm	ASTM D5185m		3	0	2
Boron	ppm	ASTM D5185m	39	30	35	21
Barium	ppm	ASTM D5185m	1	0	<1	0
Molybdenum	ppm	ASTM D5185m	49	72	78	64
Manganese	ppm	ASTM D5185m	1	<1	0	1
Magnesium	ppm	ASTM D5185m	616	698	683	700
Calcium	ppm	ASTM D5185m	1554	1414	1244	1248
Phosphorus	ppm	ASTM D5185m	899	882	763	767
Zinc	ppm	ASTM D5185m	1069	1019	967	979
Sulfur	ppm	ASTM D5185m	2624	2938	2869	2384
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.2	22.4	32.3
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	▲ 3.4	5.3	▲ 3.8
Visc @ 100°C	cSt	ASTM D445	13.6	12.9	13.1	13.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0035429
Lab Number : 06193589
Unique Number : 11050341
Test Package : FLEET

Received : 29 May 2024
Tested : 30 May 2024
Diagnosed : 30 May 2024 - Sean Felton

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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)