OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
139456
Component
Diesel Engine
Fluid
{not provided} (--- LTR)

RECOMMENDATION

The oil is near the end of it`s useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

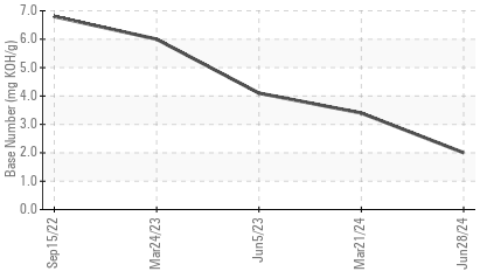
There is no indication of any contamination in the oil.

FLUID CONDITION

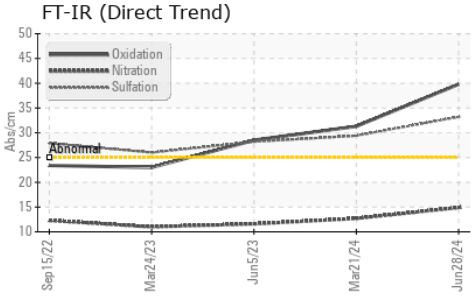
The BN level is low. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL06234140	RPL06151643	RPL05873004
Sample Date		Client Info		28 Jun 2024	21 Mar 2024	05 Jun 2023
Machine Age	mls	Client Info		161381	150350	110655
Oil Age	mls	Client Info		50000	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	83	56	76
Chromium	ppm	ASTM D5185m	>20	5	4	4
Nickel	ppm	ASTM D5185m	>4	<1	0	2
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	9	9	21
Lead	ppm	ASTM D5185m	>40	7	6	6
Copper	ppm	ASTM D5185m	>330	10	0	3
Tin	ppm	ASTM D5185m	>15	<1	2	2
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	23	21	24
Potassium	ppm	ASTM D5185m	>20	11	10	40
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	0.5	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	14.9	12.7	11.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	33.2	29.4	28.2
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
Sodium	ppm	ASTM D5185m		4	<1	3
Boron	ppm	ASTM D5185m		38	57	48
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		117	128	116
Manganese	ppm	ASTM D5185m		2	1	2
Magnesium	ppm	ASTM D5185m		592	677	681
Calcium	ppm	ASTM D5185m		1759	1647	1568
Phosphorus	ppm	ASTM D5185m		689	694	724
Zinc	ppm	ASTM D5185m		842	855	927
Sulfur	ppm	ASTM D5185m		2571	2717	2974
Oxidation	Abs/.1mm	*ASTM D7414	>25	39.8	31.3	28.5
Base Number (BN)	mg KOH/g	ASTM D2896		▲ 2.0	▲ 3.4	4.1
Visc @ 100°C	cSt	ASTM D445		13.5	13.4	13.2

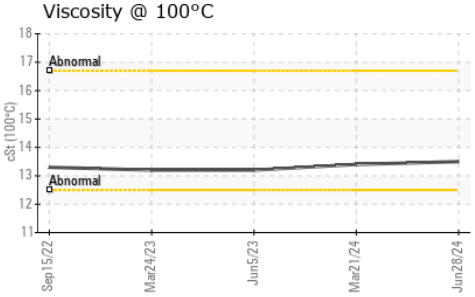
Base Number



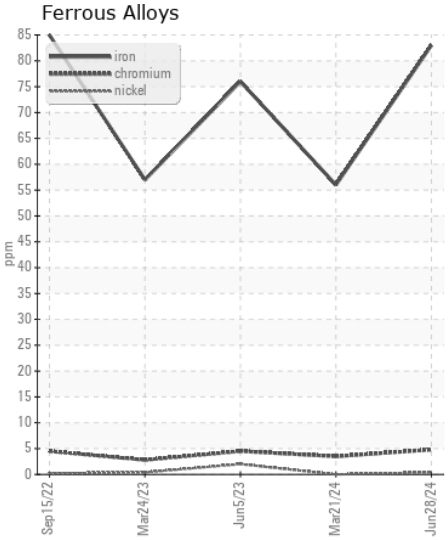
FT-IR (Direct Trend)



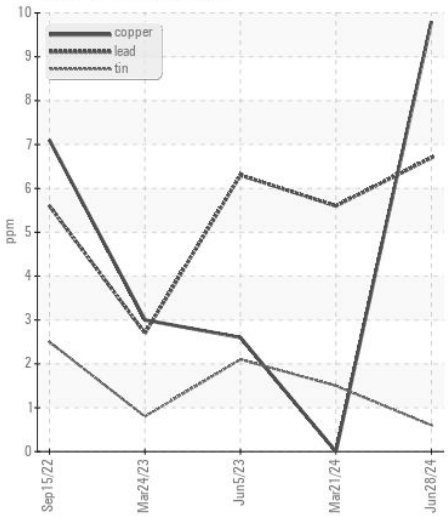
Viscosity @ 100°C



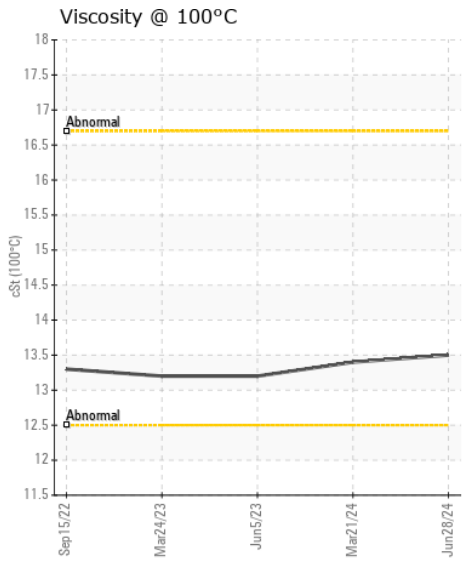
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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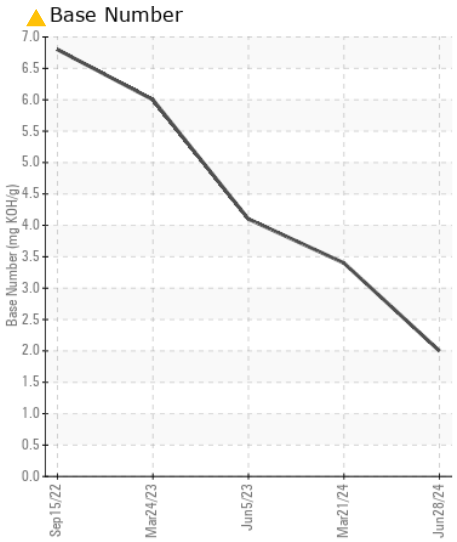

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL06234140
Lab Number : 06234140
Unique Number : 11122974
Test Package : FLEET

Received : 11 Jul 2024
Tested : 12 Jul 2024
Diagnosed : 14 Jul 2024 - Don Baldridge

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)

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