OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
8464958
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

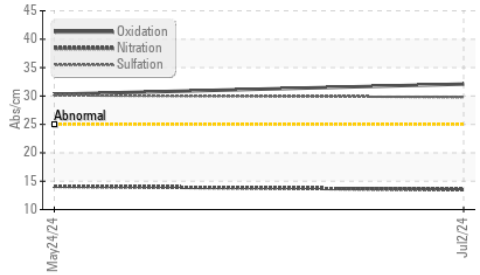
There is no indication of any contamination in the oil.

FLUID CONDITION

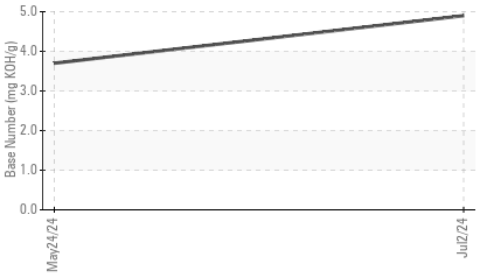
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0022070	RPL0018111	---
Sample Date		Client Info		02 Jul 2024	24 May 2024	---
Machine Age	mls	Client Info		28927	80481	---
Oil Age	mls	Client Info		28927	80481	---
Filter Age	mls	Client Info		28927	80481	---
Oil Changed		Client Info		Not Changd	Changed	---
Filter Changed		Client Info		Not Changd	Changed	---
Sample Status				NORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185m	>100	79	▲ 111	---
Chromium	ppm	ASTM D5185m	>20	3	<1	---
Nickel	ppm	ASTM D5185m	>4	<1	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	<1	0	---
Aluminum	ppm	ASTM D5185m	>20	31	18	---
Lead	ppm	ASTM D5185m	>40	0	2	---
Copper	ppm	ASTM D5185m	>330	19	17	---
Tin	ppm	ASTM D5185m	>15	1	2	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	16	22	---
Potassium	ppm	ASTM D5185m	>20	17	50	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.7	0.6	---
Nitration	Abs/cm	*ASTM D7624	>20	13.5	14.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.8	30.1	---
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	---
Sodium	ppm	ASTM D5185m		7	7	---
Boron	ppm	ASTM D5185m		70	27	---
Barium	ppm	ASTM D5185m		<1	<1	---
Molybdenum	ppm	ASTM D5185m		90	17	---
Manganese	ppm	ASTM D5185m		11	3	---
Magnesium	ppm	ASTM D5185m		659	730	---
Calcium	ppm	ASTM D5185m		1500	1727	---
Phosphorus	ppm	ASTM D5185m		691	840	---
Zinc	ppm	ASTM D5185m		840	1003	---
Sulfur	ppm	ASTM D5185m		2631	3407	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	32.1	30.3	---
Base Number (BN)	mg KOH/g	ASTM D2896		4.9	3.7	---
Visc @ 100°C	cSt	ASTM D445		13.2	14.0	---

FT-IR (Direct Trend)

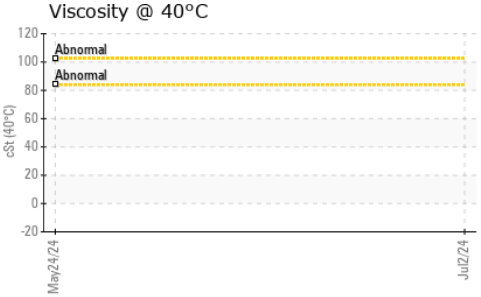


Base Number

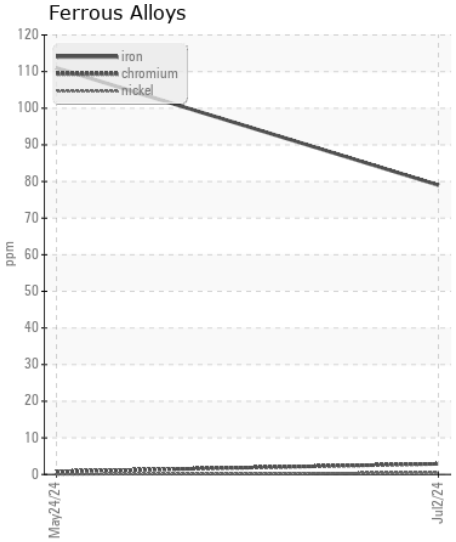


Viscosity @ 100°C

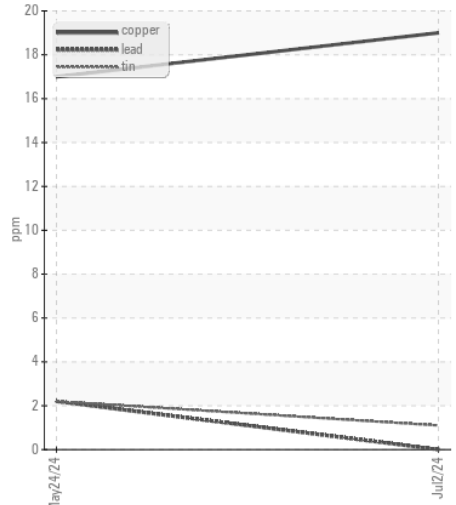
Viscosity @ 40°C



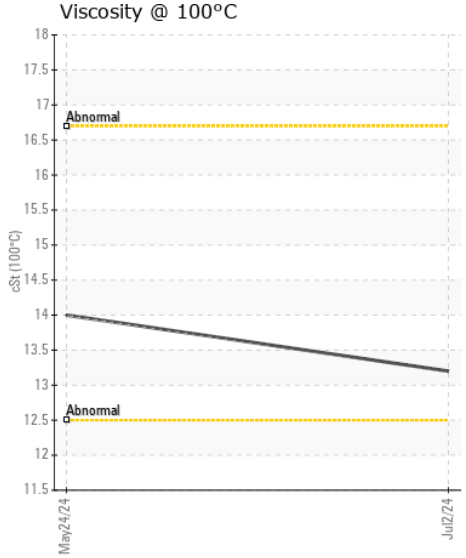
Ferrous Alloys



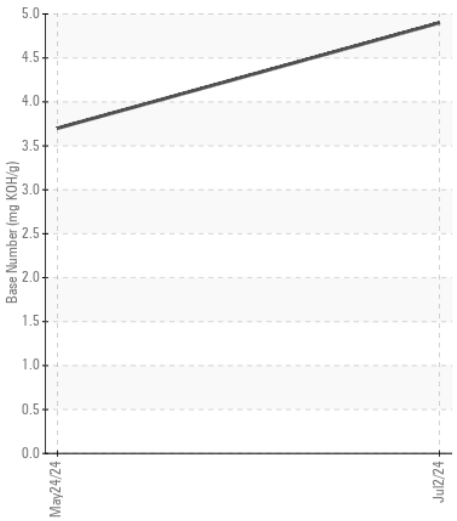
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0022070
Lab Number : 06238834
Unique Number : 11127668
Test Package : FLEET (Additional Tests: KV40)

Received : 17 Jul 2024
Tested : 18 Jul 2024
Diagnosed : 18 Jul 2024 - Sean Felton

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)

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