OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
8465192
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 15W40 (--- QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

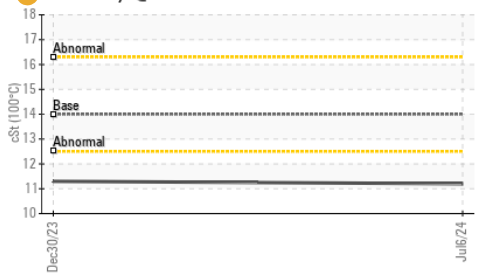
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

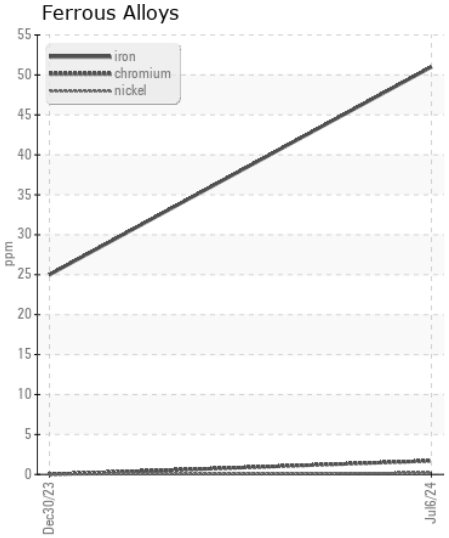
The oil viscosity is lower than normal. The BN level is low. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0022017	RPL0016911	---
Sample Date		Client Info		06 Jul 2024	30 Dec 2023	---
Machine Age	mls	Client Info		27788	15800	---
Oil Age	mls	Client Info		0	0	---
Filter Age	mls	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				ATTENTION	ATTENTION	---
Iron	ppm	ASTM D5185m	>100	51	25	---
Chromium	ppm	ASTM D5185m	>20	2	0	---
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	21	16	---
Lead	ppm	ASTM D5185m	>40	3	3	---
Copper	ppm	ASTM D5185m	>330	31	22	---
Tin	ppm	ASTM D5185m	>15	4	2	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	43	36	---
Potassium	ppm	ASTM D5185m	>20	71	53	---
Fuel		WC Method	>5	<1.0	1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.2	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	10.7	9.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.2	20.1	---
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		8	4	---
Boron	ppm	ASTM D5185m	0	24	42	---
Barium	ppm	ASTM D5185m	0	3	4	---
Molybdenum	ppm	ASTM D5185m	0	10	9	---
Manganese	ppm	ASTM D5185m		6	3	---
Magnesium	ppm	ASTM D5185m	0	722	707	---
Calcium	ppm	ASTM D5185m		1299	1270	---
Phosphorus	ppm	ASTM D5185m		688	641	---
Zinc	ppm	ASTM D5185m		806	836	---
Sulfur	ppm	ASTM D5185m		2959	2632	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.0	16.3	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	4.5	6.4	---
Visc @ 100°C	cSt	ASTM D445	14	11.2	11.3	---

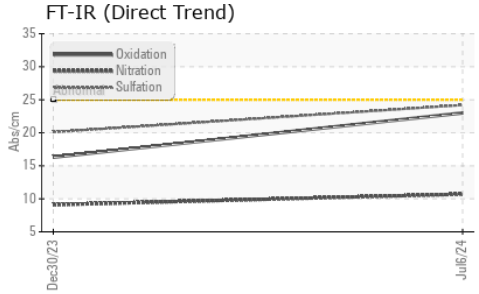
Viscosity @ 100°C



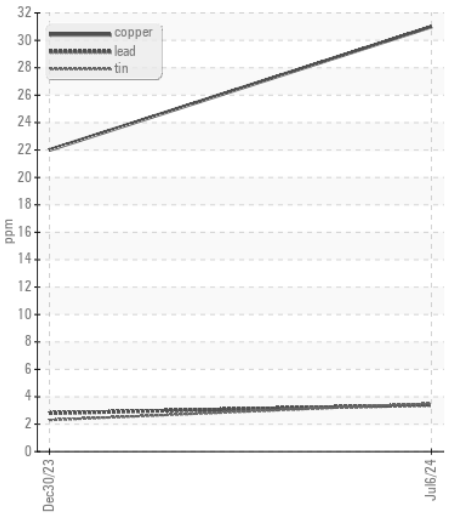
Ferrous Alloys



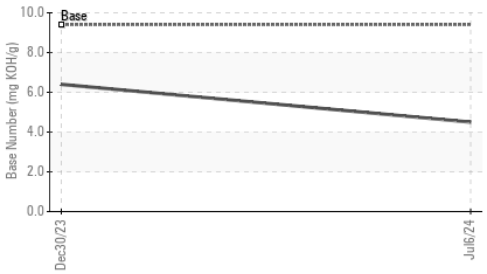
FT-IR (Direct Trend)



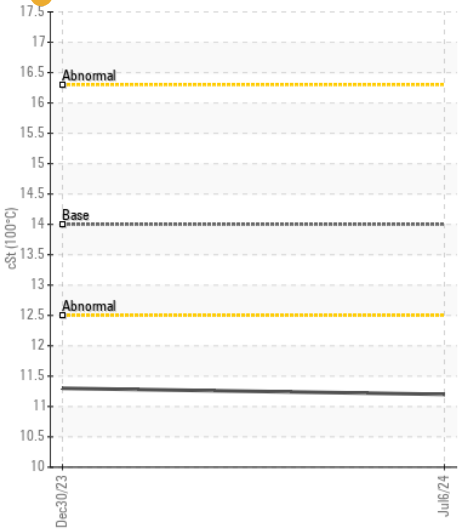
Non-ferrous Metals



Base Number



Viscosity @ 100°C



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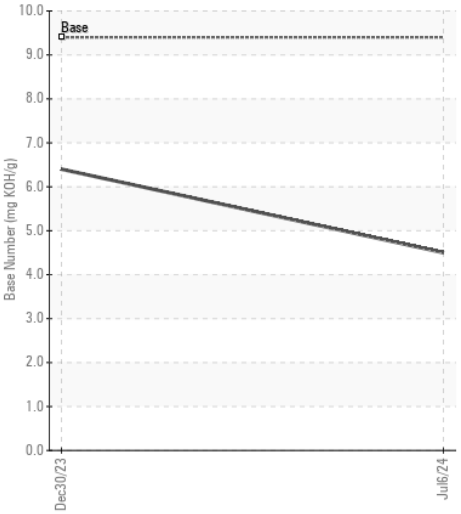

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0022017
Lab Number : 06238827
Unique Number : 11127661
Test Package : FLEET

Received : 17 Jul 2024
Tested : 17 Jul 2024
Diagnosed : 17 Jul 2024 - Jonathan Hester

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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