OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
8464849
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

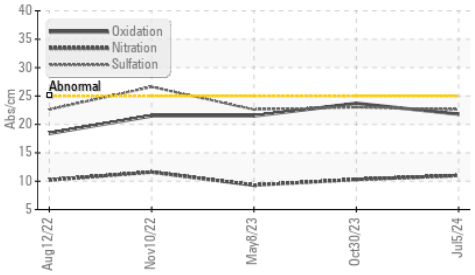
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

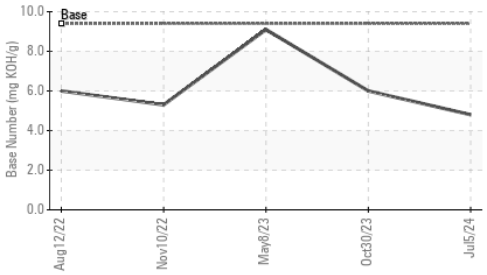
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0022016	RPL0011469	RPL0011442
Sample Date		Client Info		05 Jul 2024	30 Oct 2023	08 May 2023
Machine Age	mls	Client Info		59262	40000	31810
Oil Age	mls	Client Info		17389	20000	31810
Filter Age	mls	Client Info		0	20000	31810
Oil Changed		Client Info		Not Changd	Changed	N/A
Filter Changed		Client Info		Not Changd	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	25	29	20
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	28	21	16
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	9	6	5
Tin	ppm	ASTM D5185m	>15	<1	2	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	10	10	9
Potassium	ppm	ASTM D5185m	>20	75	69	45
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	0.2	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.0	10.3	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	23.0	22.6
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		5	5	3
Boron	ppm	ASTM D5185m	0	37	23	37
Barium	ppm	ASTM D5185m	0	0	20	0
Molybdenum	ppm	ASTM D5185m	0	104	38	39
Manganese	ppm	ASTM D5185m		2	1	<1
Magnesium	ppm	ASTM D5185m	0	626	485	531
Calcium	ppm	ASTM D5185m		1375	1476	1747
Phosphorus	ppm	ASTM D5185m		709	654	727
Zinc	ppm	ASTM D5185m		856	824	908
Sulfur	ppm	ASTM D5185m		3285	3061	2734
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.8	23.7	21.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	4.8	6.0	9.1
Visc @ 100°C	cSt	ASTM D445	14	13.1	13.0	12.8

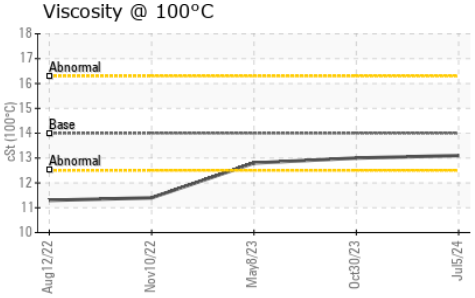
FT-IR (Direct Trend)



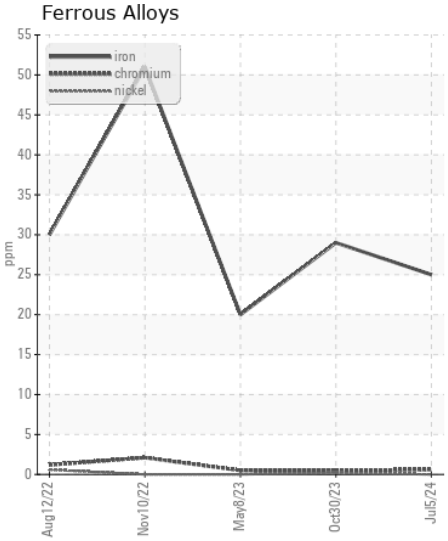
Base Number



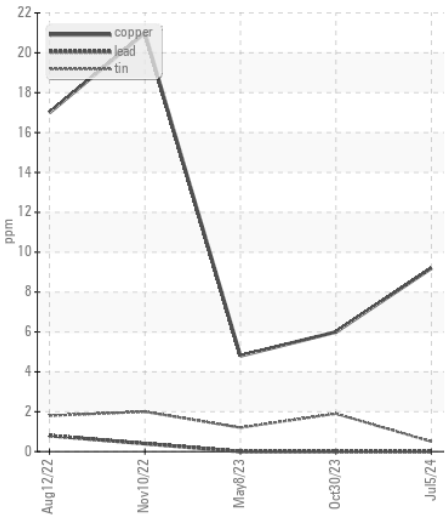
Viscosity @ 100°C



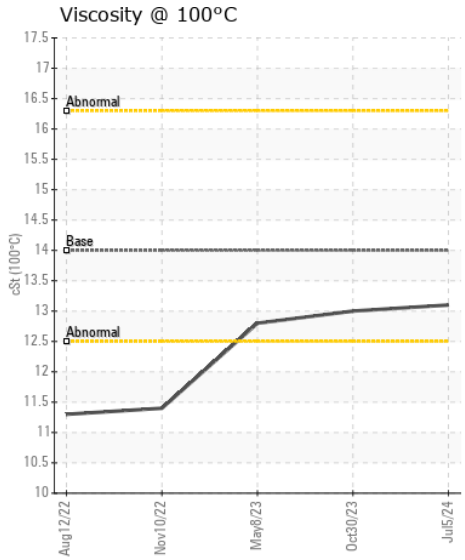
Ferrous Alloys



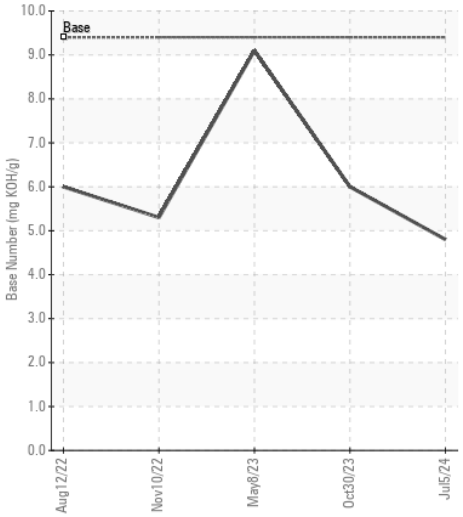
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0022016
Lab Number : 06238828
Unique Number : 11127662
Test Package : FLEET

Received : 17 Jul 2024
Tested : 17 Jul 2024
Diagnosed : 17 Jul 2024 - Wes Davis

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)

RTL PACLEASE - 7007 - Fontana
3121 South Riverside
Bloomington, CA
US 92316
Contact: Rudy Trevizo
TrevizoR@RushEnterprises.Com
T: (909)829-1044
F: