OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
8465098
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 15W40 (--- Shots)

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

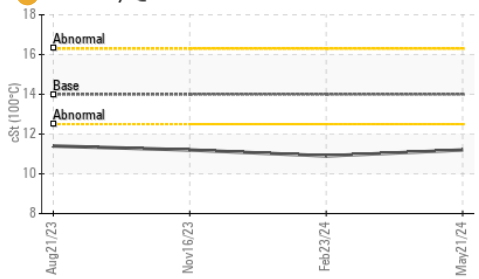
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

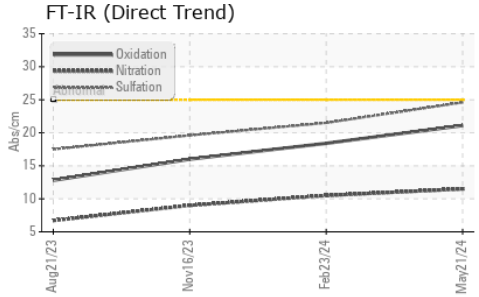
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0021090	RPL0017924	RPL0016333
Sample Date		Client Info		21 May 2024	23 Feb 2024	16 Nov 2023
Machine Age	mls	Client Info		21618	12977	8738
Oil Age	mls	Client Info		0	12977	8738
Filter Age	mls	Client Info		0	12977	8738
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	57	36	28
Chromium	ppm	ASTM D5185m	>20	3	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	34	22	15
Lead	ppm	ASTM D5185m	>40	5	2	2
Copper	ppm	ASTM D5185m	>330	24	21	20
Tin	ppm	ASTM D5185m	>15	4	3	2
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	45	43	▲ 40
Potassium	ppm	ASTM D5185m	>20	140	▲ 92	56
Fuel	%	ASTM D3524	>5	<1.0	<1.0	1.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	11.5	10.5	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.6	21.5	19.6
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		6	5	6
Boron	ppm	ASTM D5185m	0	28	43	58
Barium	ppm	ASTM D5185m	0	4	4	4
Molybdenum	ppm	ASTM D5185m	0	15	10	11
Manganese	ppm	ASTM D5185m		5	5	4
Magnesium	ppm	ASTM D5185m	0	710	731	712
Calcium	ppm	ASTM D5185m		1244	1209	1240
Phosphorus	ppm	ASTM D5185m		730	729	752
Zinc	ppm	ASTM D5185m		862	866	803
Sulfur	ppm	ASTM D5185m		2946	2937	2663
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.1	18.4	16.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	4.2	5.0	7.0
Visc @ 100°C	cSt	ASTM D445	14	11.2	10.9	11.2

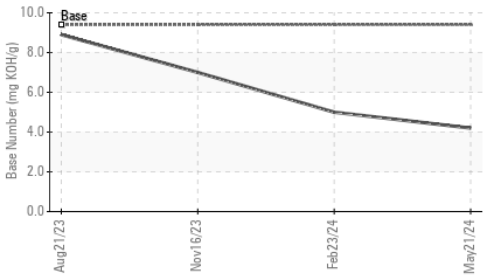
Viscosity @ 100°C



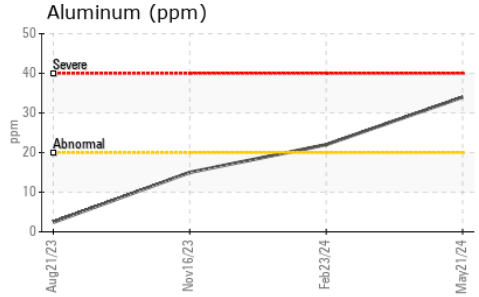
FT-IR (Direct Trend)



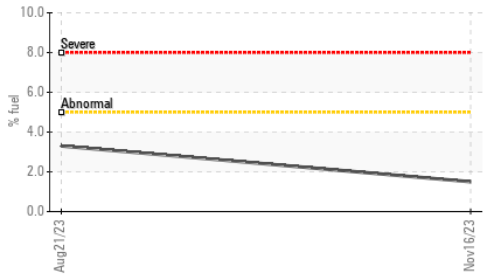
Base Number



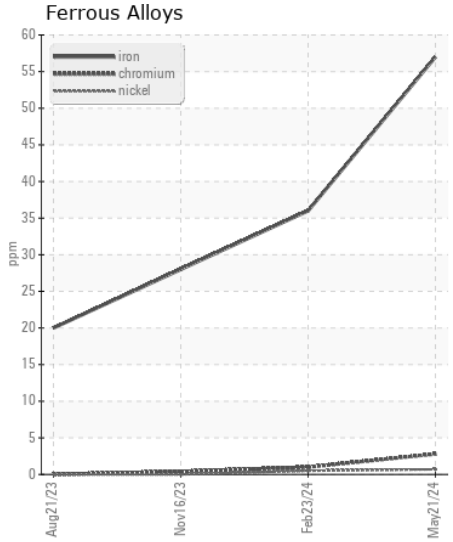
Aluminum (ppm)



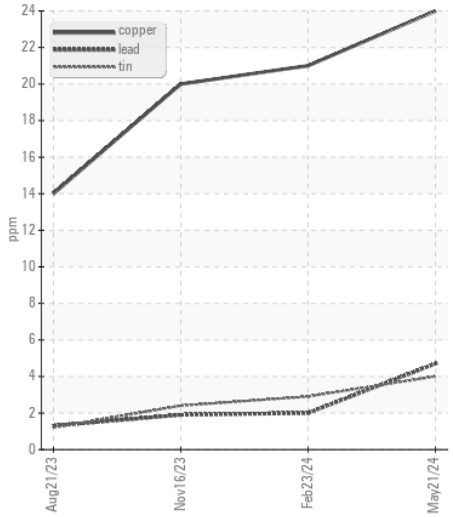
Fuel Dilution



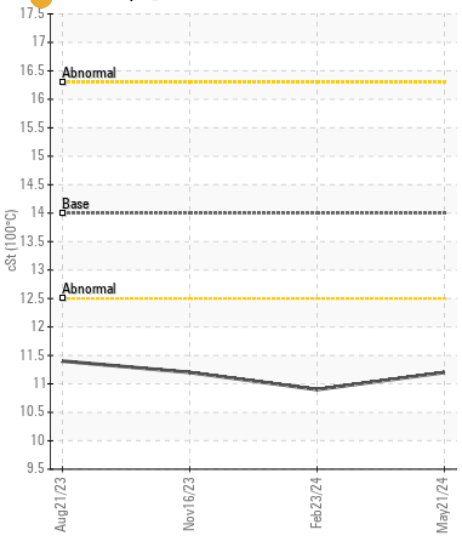
Ferrous Alloys



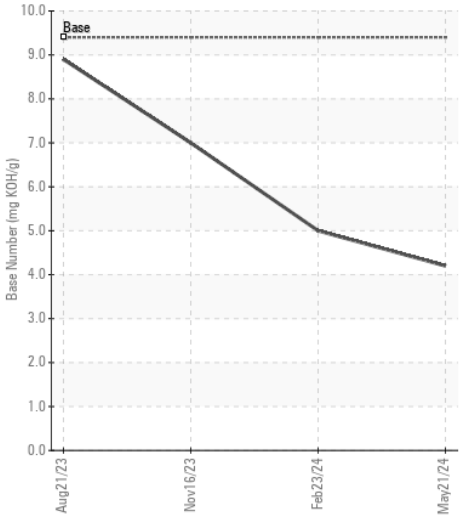
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0021090
Lab Number : 06197341
Unique Number : 11059464
Test Package : FLEET (Additional Tests: FuelDilution, Glycol)

Received : 03 Jun 2024
Tested : 05 Jun 2024
Diagnosed : 05 Jun 2024 - Sean Felton

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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