



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
{UNASSIGNED}
Machine Id
INTERANTIONAL 441378
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (46 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0033720	IL0026579	IL0022791
Sample Date		Client Info		04 Apr 2024	04 May 2023	01 Jun 2022
Machine Age	mls	Client Info		205460	157849	113204
Oil Age	mls	Client Info		0	44645	27100
Filter Age	mls	Client Info		0	44645	27100
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	34	37	17
Chromium	ppm	ASTM D5185m	>20	2	2	1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	6	6
Lead	ppm	ASTM D5185m	>40	10	12	4
Copper	ppm	ASTM D5185m	>330	3	4	1
Tin	ppm	ASTM D5185m	>15	2	2	1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

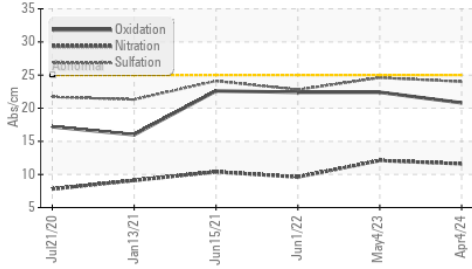
Silicon	ppm	ASTM D5185m	>25	8	8	6
Potassium	ppm	ASTM D5185m	>20	11	15	7
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.7	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	11.6	12.1	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.0	24.6	22.8
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

FLUID CONDITION

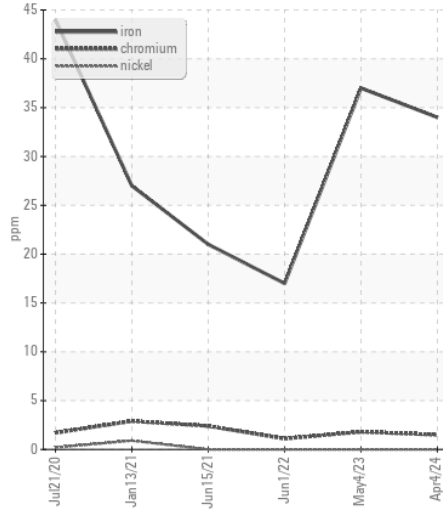
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	3	2
Boron	ppm	ASTM D5185m	0	3	6	35
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	67	61	41
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m	0	1016	899	473
Calcium	ppm	ASTM D5185m		1208	1409	1600
Phosphorus	ppm	ASTM D5185m		1054	977	671
Zinc	ppm	ASTM D5185m		1303	1235	873
Sulfur	ppm	ASTM D5185m		3695	3402	2182
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.8	22.4	22.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	6.6	7.5	8.3
Visc @ 100°C	cSt	ASTM D445	14	12.8	13.2	13.2

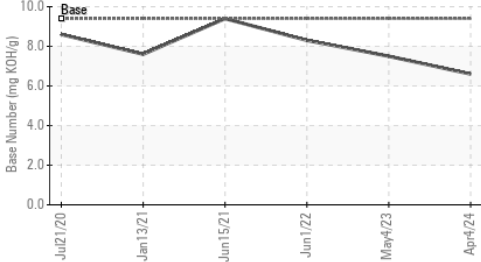
FT-IR (Direct Trend)



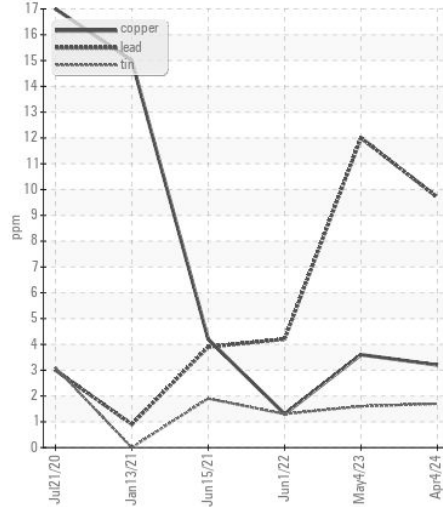
Ferrous Alloys



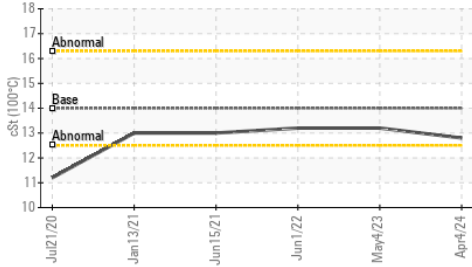
Base Number



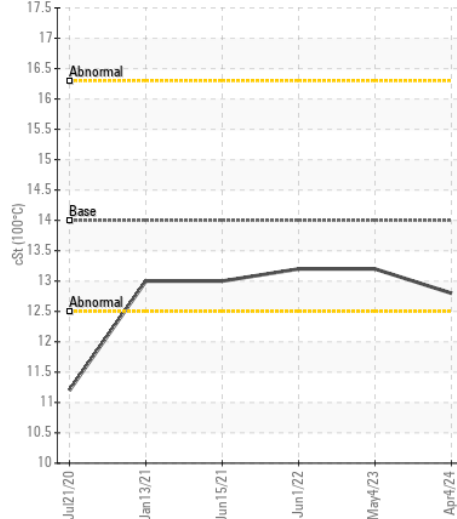
Non-ferrous Metals



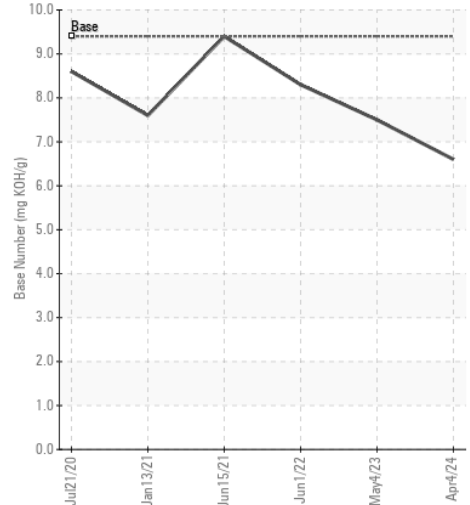
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0033720
Lab Number : 06161166
Unique Number : 10996589
Test Package : FLEET

Received : 26 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 29 Apr 2024 - Sean Felton

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 CHARLOTTE, NC
 US 28206
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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)