



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL 109336
Component
Diesel Engine
Fluid
SHELL ROTELLA T 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0032999	IL0027544	IL0020089
Sample Date		Client Info		02 Apr 2024	15 May 2023	08 Mar 2022
Machine Age	mls	Client Info		302299	271835	201274
Oil Age	mls	Client Info		30464	27590	39657
Filter Age	mls	Client Info		30464	27590	39657
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	30	24	32
Chromium	ppm	ASTM D5185m	>20	2	2	3
Nickel	ppm	ASTM D5185m	>4	2	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	2	7
Lead	ppm	ASTM D5185m	>40	2	<1	5
Copper	ppm	ASTM D5185m	>330	10	5	4
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
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.

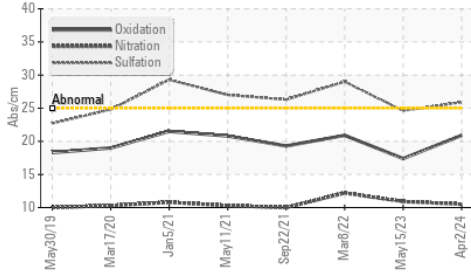
Silicon	ppm	ASTM D5185m	>25	9	10	12
Potassium	ppm	ASTM D5185m	>20	8	4	10
Fuel		WC Method	>2.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.1	1.3	1.6
Nitration	Abs/cm	*ASTM D7624	>20	10.5	10.9	12.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.9	24.6	29.0
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

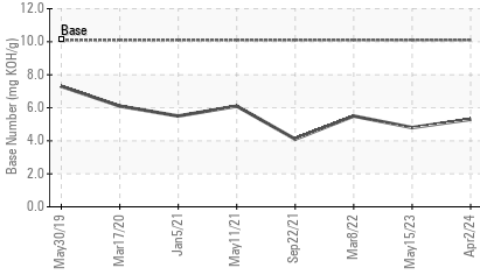
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	2	3
Boron	ppm	ASTM D5185m	316	24	17	12
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	1.2	34	88	91
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	24	267	69	55
Calcium	ppm	ASTM D5185m	2292	2289	2234	2495
Phosphorus	ppm	ASTM D5185m	1064	1067	927	1071
Zinc	ppm	ASTM D5185m	1160	1379	1154	1303
Sulfur	ppm	ASTM D5185m	4996	4002	4149	3370
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.9	17.4	20.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	5.3	4.8	5.5
Visc @ 100°C	cSt	ASTM D445	15.7	14.6	14.2	14.3

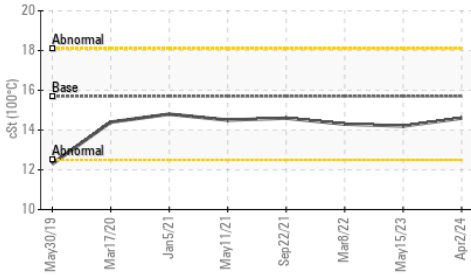
FT-IR (Direct Trend)



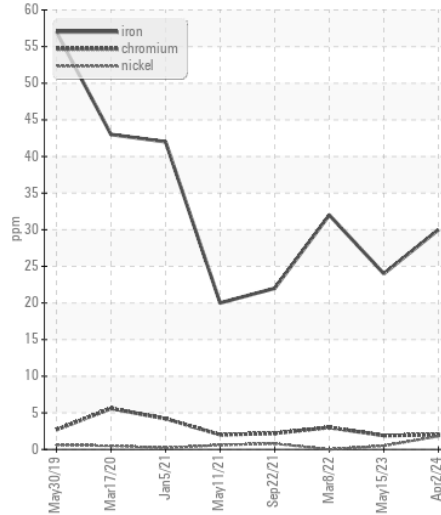
Base Number



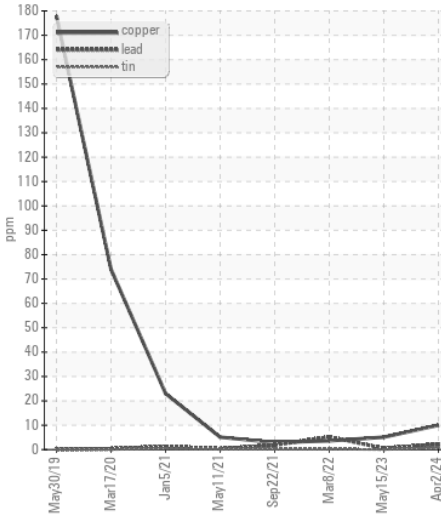
Viscosity @ 100°C



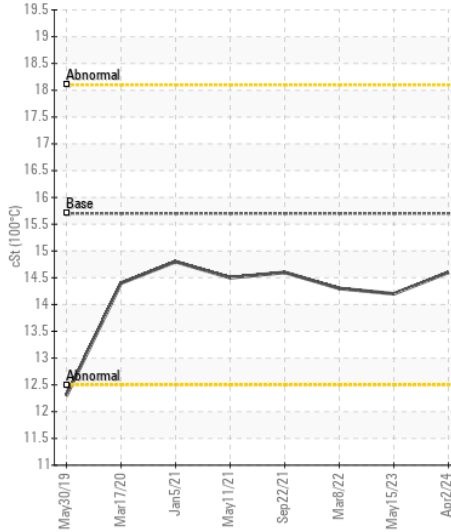
Ferrous Alloys



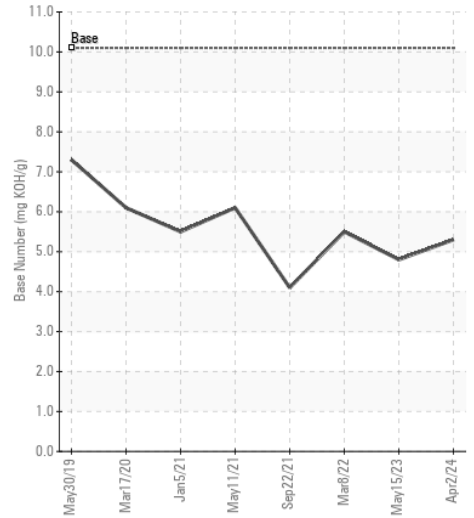
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0032999 **Received** : 11 Apr 2024
Lab Number : 06145654 **Tested** : 12 Apr 2024
Unique Number : 10970462 **Diagnosed** : 12 Apr 2024 - Wes Davis
Test Package : FLEET

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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)