IDEALEASE FLEET

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL 112776
Component
Diesel Engine
Fluid
SHELL ROTELLA T 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

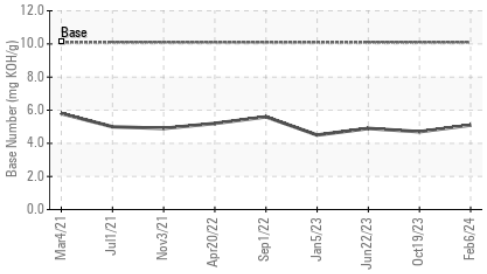
There is no indication of any contamination in the oil.

FLUID CONDITION

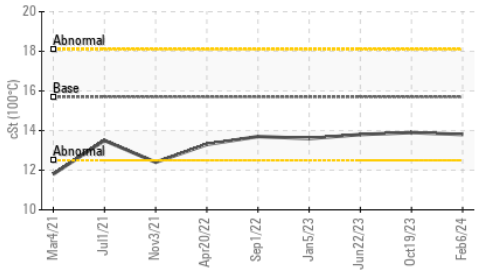
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0032957	IL0032753	IL0027495
Sample Date		Client Info		06 Feb 2024	19 Oct 2023	22 Jun 2023
Machine Age	mls	Client Info		341189	309882	275282
Oil Age	mls	Client Info		31307	34600	42418
Filter Age	mls	Client Info		31307	34600	42418
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>90	24	29	30
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	3	2
Lead	ppm	ASTM D5185m	>40	2	4	6
Copper	ppm	ASTM D5185m	>330	1	1	1
Tin	ppm	ASTM D5185m	>15	<1	1	<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	6	5	5
Potassium	ppm	ASTM D5185m	>20	9	12	5
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	0.7	0.9
Nitration	Abs/cm	*ASTM D7624	>20	11.0	11.1	12.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.1	27.0	28.1
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		<1	6	2
Boron	ppm	ASTM D5185m	316	45	38	33
Barium	ppm	ASTM D5185m	0.0	0	20	11
Molybdenum	ppm	ASTM D5185m	1.2	35	29	63
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	24	321	211	42
Calcium	ppm	ASTM D5185m	2292	1886	1879	1781
Phosphorus	ppm	ASTM D5185m	1064	989	962	774
Zinc	ppm	ASTM D5185m	1160	1238	1157	985
Sulfur	ppm	ASTM D5185m	4996	3097	3804	3137
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.9	23.2	24.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	5.1	4.7	4.9
Visc @ 100°C	cSt	ASTM D445	15.7	13.8	13.9	13.8

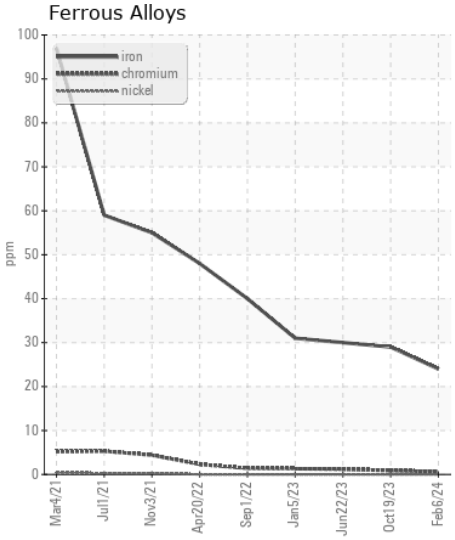
Base Number



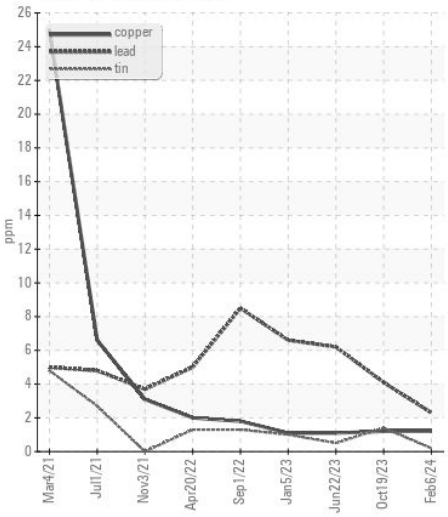
Viscosity @ 100°C



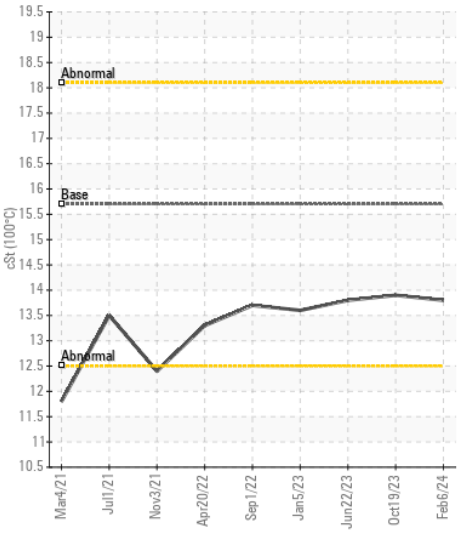
Ferrous Alloys



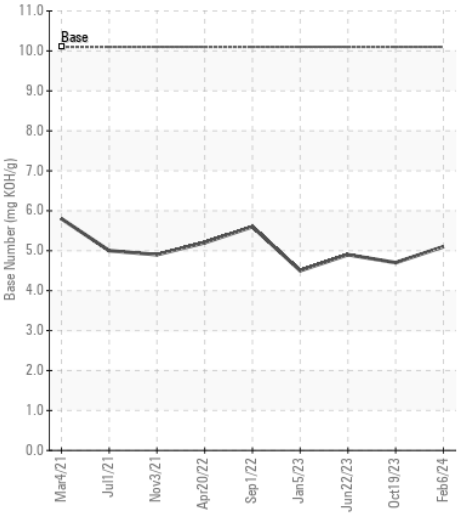
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: IL0032957	**Received**	: 13 Feb 2024
Lab Number	: 06087018	**Tested**	: 14 Feb 2024
Unique Number	: 10874463	**Diagnosed**	: 14 Feb 2024 - Wes Davis
Test Package	: FLEET		

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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