OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
139307
Component
Diesel Engine
Fluid
MOBIL DELVAC EXTREME 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

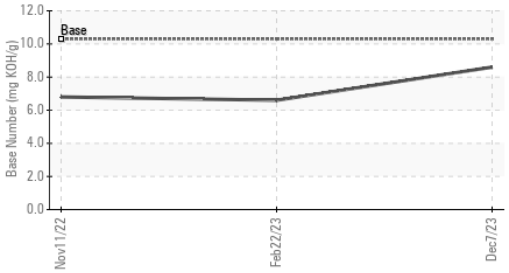
There is no indication of any contamination in the oil.

FLUID CONDITION

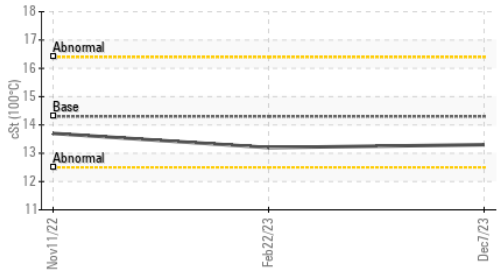
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0008096	RPL0008020	RPL0007384
Sample Date		Client Info		07 Dec 2023	22 Feb 2023	11 Nov 2022
Machine Age	hrs	Client Info		13732	327799	11449
Oil Age	hrs	Client Info		578	19633	1030
Filter Age	hrs	Client Info		578	19633	1030
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	23	21	23
Chromium	ppm	ASTM D5185m	>20	1	2	2
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	11	13	10
Lead	ppm	ASTM D5185m	>40	2	1	3
Copper	ppm	ASTM D5185m	>330	0	<1	1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	11	24	5
Potassium	ppm	ASTM D5185m	>20	4	2	1
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	0.6	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	10.1	11.2	13.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	23.4	26.2
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	0	<1
Boron	ppm	ASTM D5185m		31	10	9
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		46	55	70
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		624	830	916
Calcium	ppm	ASTM D5185m		1616	1047	1268
Phosphorus	ppm	ASTM D5185m		874	875	973
Zinc	ppm	ASTM D5185m		1030	1110	1275
Sulfur	ppm	ASTM D5185m		2539	3087	3250
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.5	20.3	24.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	8.6	6.6	6.8
Visc @ 100°C	cSt	ASTM D445	14.3	13.3	13.2	13.7

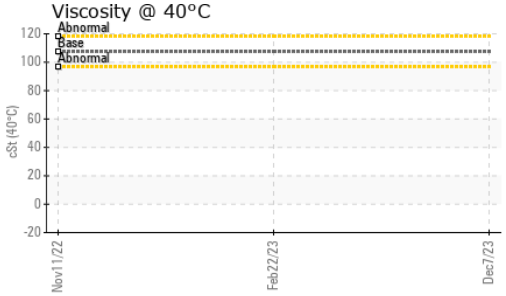
Base Number



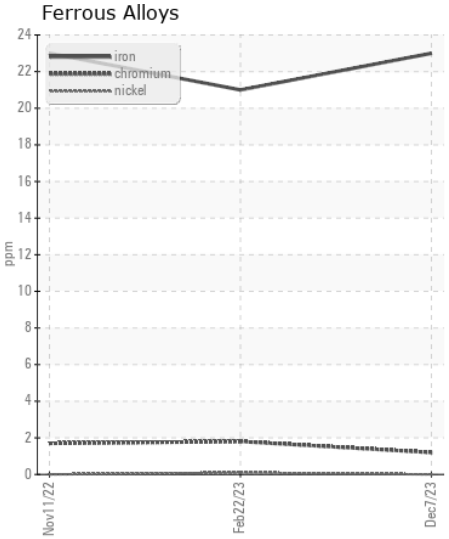
Viscosity @ 100°C



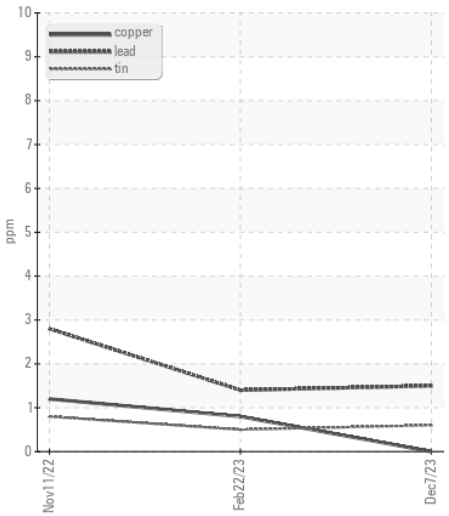
Viscosity @ 40°C



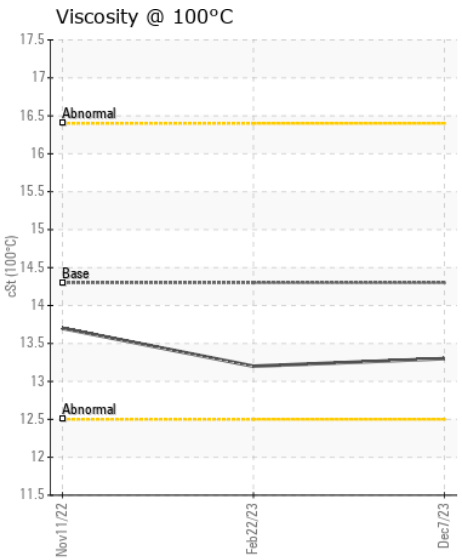
Ferrous Alloys



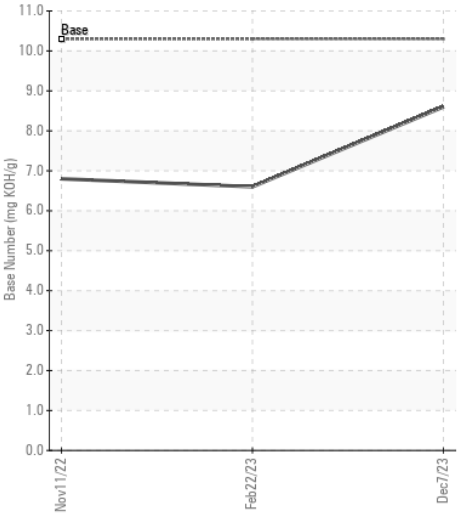
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: RPL0008096	**Recieved**	: 16 Jan 2024
Lab Number	: 06060909	**Diagnosed**	: 17 Jan 2024
Unique Number	: 10832291	**Diagnostician**	: Jonathan Hester
Test Package	: FLEET (Additional Tests: KV40)		

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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