IDEALEASE FLEET

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
4484L
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

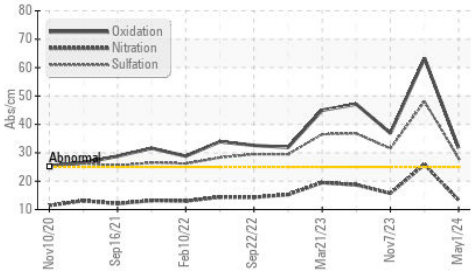
There is no indication of any contamination in the oil.

FLUID CONDITION

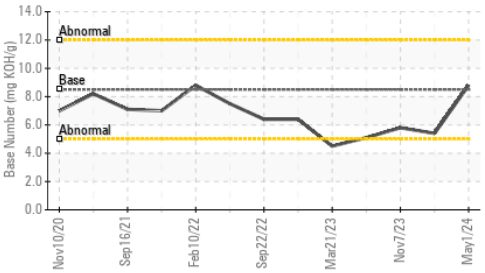
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL06175096	IL0034327	IL0032487
Sample Date		Client Info		01 May 2024	20 Feb 2024	07 Nov 2023
Machine Age	hrs	Client Info		3	227523	208190
Oil Age	hrs	Client Info		0	15000	15000
Filter Age	hrs	Client Info		0	15000	15000
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	51	▲ 124	44
Chromium	ppm	ASTM D5185m	>20	1	3	<1
Nickel	ppm	ASTM D5185m	>4	0	1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	16	7
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	4	11	4
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	6	11	8
Potassium	ppm	ASTM D5185m	>20	6	6	4
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	0.5	1.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	13.3	25.9	15.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.1	48.1	31.5
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	>158	3	4	3
Boron	ppm	ASTM D5185m	250	105	2	0
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	40	109	76
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m	450	544	1880	1245
Calcium	ppm	ASTM D5185m	3000	2571	2075	1440
Phosphorus	ppm	ASTM D5185m	1150	1261	1803	1337
Zinc	ppm	ASTM D5185m	1350	1514	2280	1594
Sulfur	ppm	ASTM D5185m	4250	4111	4043	3337
Oxidation	Abs/.1mm	*ASTM D7414	>25	31.7	63.3	36.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.8	5.4	5.8
Visc @ 100°C	cSt	ASTM D445	14.4	16.6	▲ 19.2	14.5

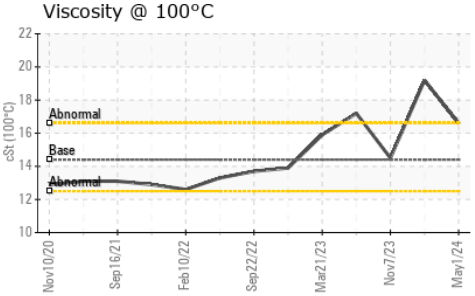
FT-IR (Direct Trend)



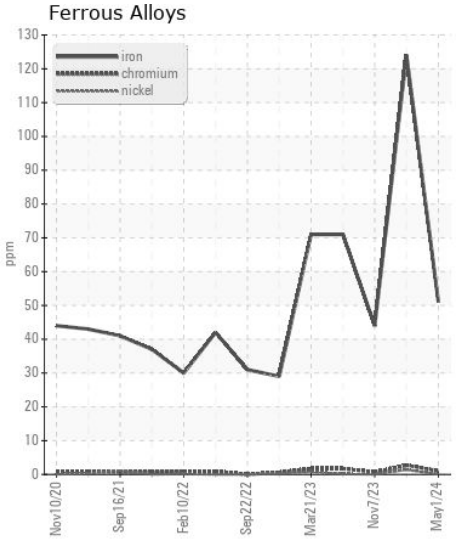
Base Number



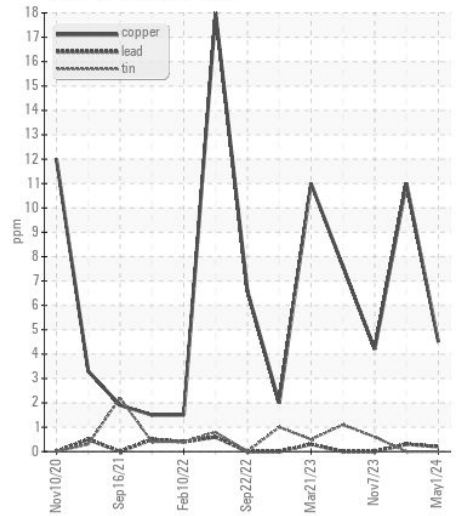
Viscosity @ 100°C



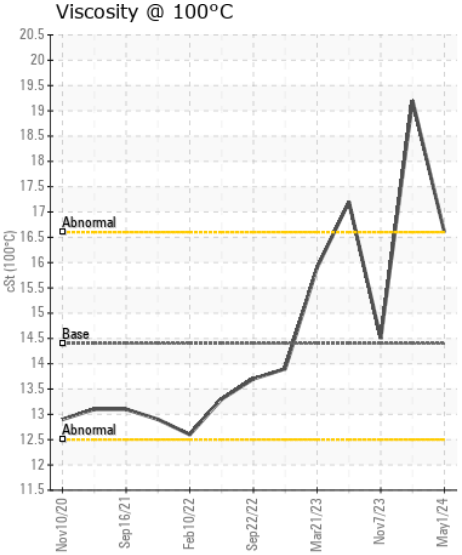
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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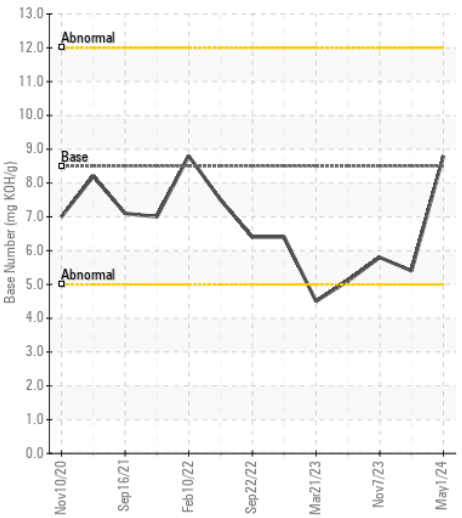

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL06175096
Lab Number : 06175096
Unique Number : 11021149
Test Package : FLEET

Received : 10 May 2024
Tested : 10 May 2024
Diagnosed : 13 May 2024 - Wes Davis

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)

RUSH TRUCK CENTER - CHICAGO IDEALEASE
4655 SOUTH CENTRAL AVENUE
CHICAGO, IL
US 60638
Contact: MIKE LINLEY
linleym@rushtruckcenters.com
T: (708)496-7500
F: (708)496-8818