IDEALEASE FLEET

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
112601
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

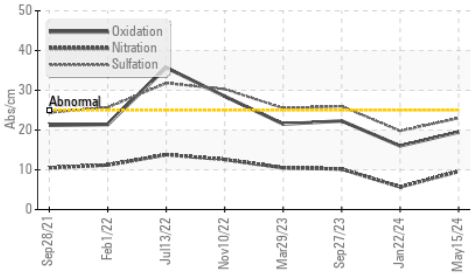
There is no indication of any contamination in the oil.

FLUID CONDITION

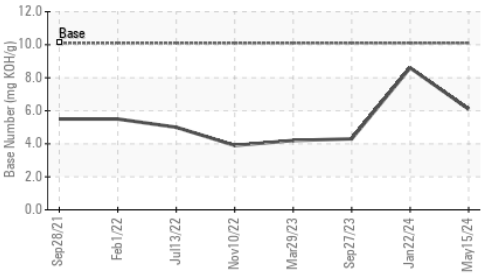
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0033041	IL0033063	IL0032722
Sample Date		Client Info		15 May 2024	22 Jan 2024	27 Sep 2023
Machine Age	mls	Client Info		322310	288486	0
Oil Age	mls	Client Info		33824	41488	0
Filter Age	mls	Client Info		33824	41488	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>90	16	0	25
Chromium	ppm	ASTM D5185m	>20	2	<1	2
Nickel	ppm	ASTM D5185m	>2	2	0	1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	1	0	0
Aluminum	ppm	ASTM D5185m	>20	4	2	5
Lead	ppm	ASTM D5185m	>40	1	0	2
Copper	ppm	ASTM D5185m	>330	2	<1	2
Tin	ppm	ASTM D5185m	>15	1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	7	10	8
Potassium	ppm	ASTM D5185m	>20	9	5	11
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	0.3	0.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.6	5.7	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	19.8	26.0
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
Sodium	ppm	ASTM D5185m		3	<1	3
Boron	ppm	ASTM D5185m	316	42	107	24
Barium	ppm	ASTM D5185m	0.0	<1	0	2
Molybdenum	ppm	ASTM D5185m	1.2	28	25	32
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	24	293	247	156
Calcium	ppm	ASTM D5185m	2292	1878	1609	2070
Phosphorus	ppm	ASTM D5185m	1064	979	948	980
Zinc	ppm	ASTM D5185m	1160	1237	1066	1244
Sulfur	ppm	ASTM D5185m	4996	3369	3195	3436
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5	16.0	22.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	6.1	8.6	4.3
Visc @ 100°C	cSt	ASTM D445	15.7	13.8	14.4	14.0

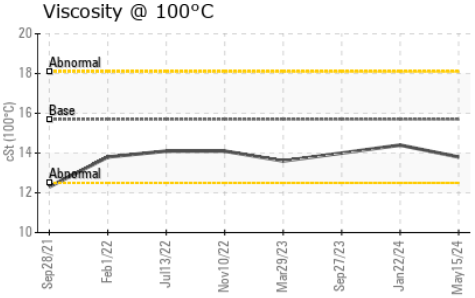
FT-IR (Direct Trend)



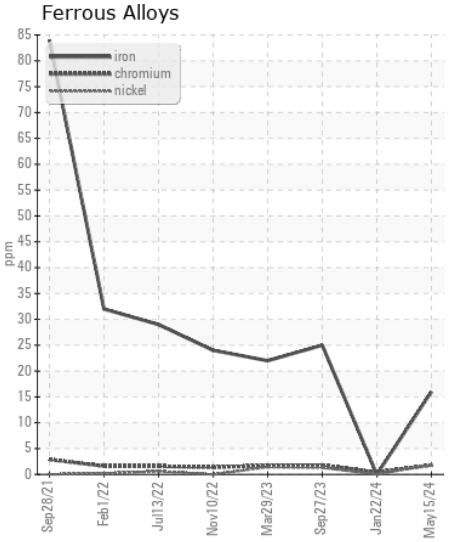
Base Number



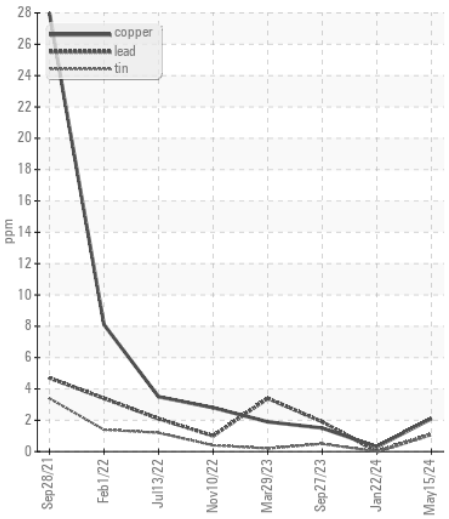
Viscosity @ 100°C



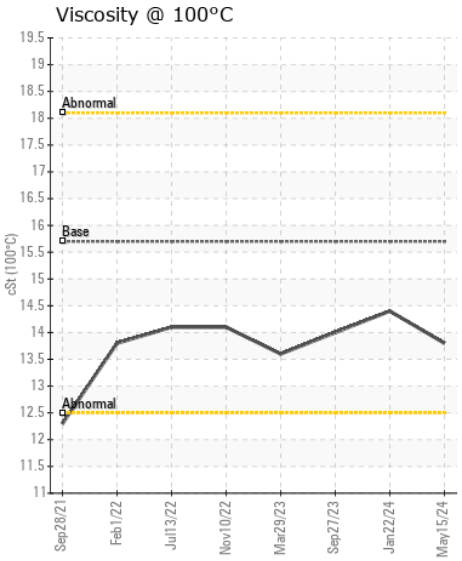
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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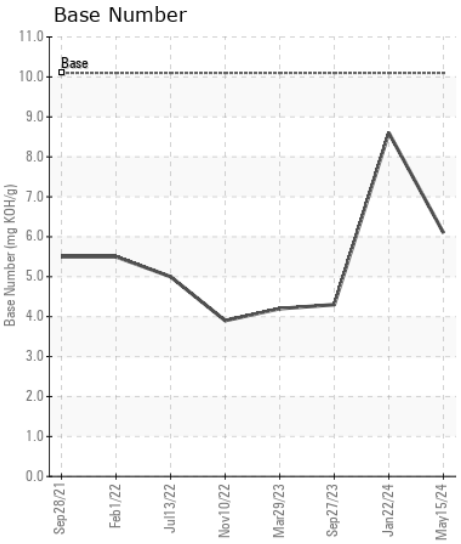

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0033041
Lab Number : 06191842
Unique Number : 11048594
Test Package : FLEET

Received : 28 May 2024
Tested : 29 May 2024
Diagnosed : 30 May 2024 - Sean Felton

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)

IDEALEASE OF NORTHWEST WI
611 HANSEN ROAD
GREEN BAY, WI
US 54304
Contact: GARY KOLTZ
gkoltz@pcitrucks.com
T: (920)499-6200
F: (920)499-5332