IDEALEASE FLEET

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
109219
Component
Diesel Engine
Fluid
SHELL ROTELLA T 15W40 (--- QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

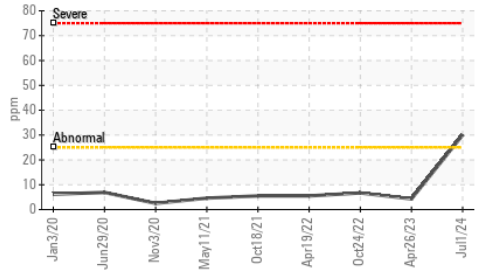
Elemental level of silicon (Si) above normal.

FLUID CONDITION

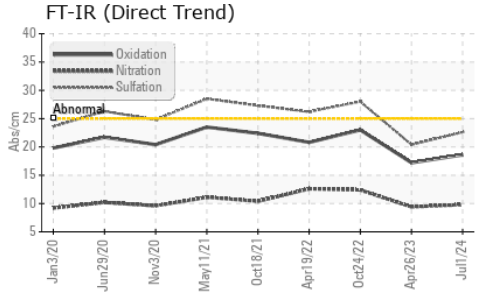
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**IL0032927**	IL0027564	IL0027740
Sample Date		Client Info		**01 Jul 2024**	26 Apr 2023	24 Oct 2022
Machine Age	mls	Client Info		**385839**	341339	317433
Oil Age	mls	Client Info		**18406**	23406	43372
Filter Age	mls	Client Info		**18406**	23406	43372
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	**13**	12	27
Chromium	ppm	ASTM D5185m	>20	**<1**	0	1
Nickel	ppm	ASTM D5185m	>4	**0**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m	>3	**<1**	0	<1
Aluminum	ppm	ASTM D5185m	>20	**3**	3	6
Lead	ppm	ASTM D5185m	>40	**<1**	0	8
Copper	ppm	ASTM D5185m	>330	**<1**	0	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	▲ **30**	4	7
Potassium	ppm	ASTM D5185m	>20	**8**	6	9
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**	0.4	0.6
Nitration	Abs/cm	*ASTM D7624	>20	**9.8**	9.4	12.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	**22.6**	20.4	28.0
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		**0**	2	2
Boron	ppm	ASTM D5185m	316	**72**	65	19
Barium	ppm	ASTM D5185m	0.0	**<1**	0	0
Molybdenum	ppm	ASTM D5185m	1.2	**29**	67	81
Manganese	ppm	ASTM D5185m		**0**	<1	<1
Magnesium	ppm	ASTM D5185m	24	**254**	51	167
Calcium	ppm	ASTM D5185m	2292	**1997**	2250	2119
Phosphorus	ppm	ASTM D5185m	1064	**898**	1014	973
Zinc	ppm	ASTM D5185m	1160	**1217**	1335	1236
Sulfur	ppm	ASTM D5185m	4996	**3027**	4041	3783
Oxidation	Abs/.1mm	*ASTM D7414	>25	**18.6**	17.2	23.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	**7.0**	4.9	5.3
Visc @ 100°C	cSt	ASTM D445	15.7	**13.8**	14.1	13.4

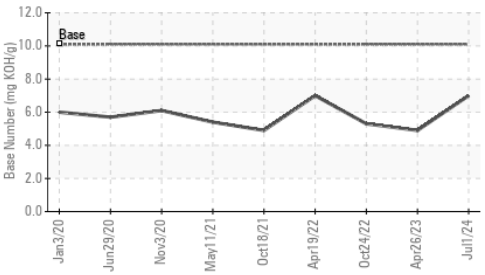
Silicon (ppm)



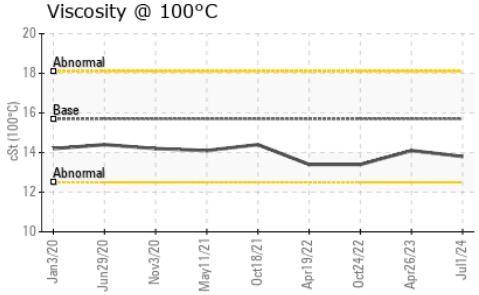
FT-IR (Direct Trend)



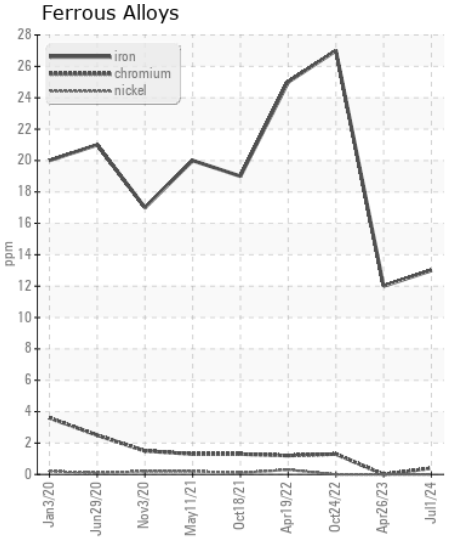
Base Number



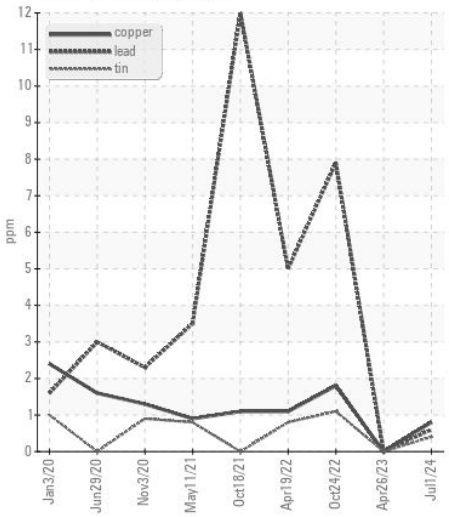
Viscosity @ 100°C



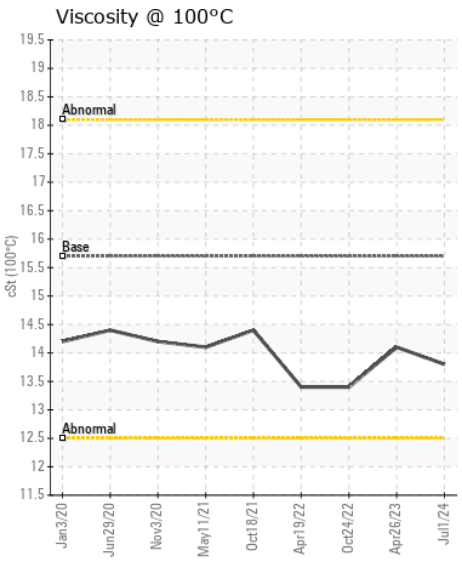
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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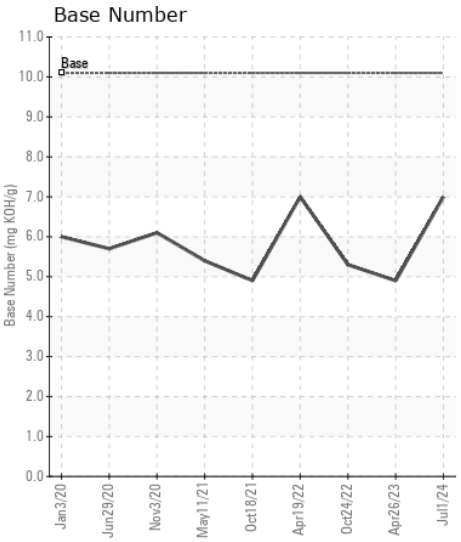

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0032927
Lab Number : 06235608
Unique Number : 11124442
Test Package : FLEET

Received : 15 Jul 2024
Tested : 15 Jul 2024
Diagnosed : 16 Jul 2024 - Don Baldridge

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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