IDEALEASE FLEET

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	MARGINAL

Machine Id
141602
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

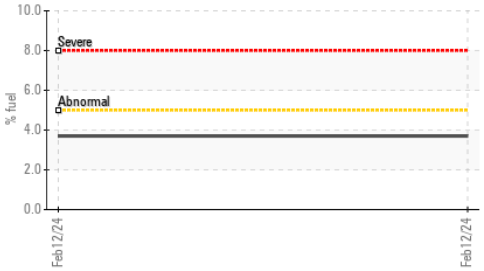
Light fuel dilution occurring.

FLUID CONDITION

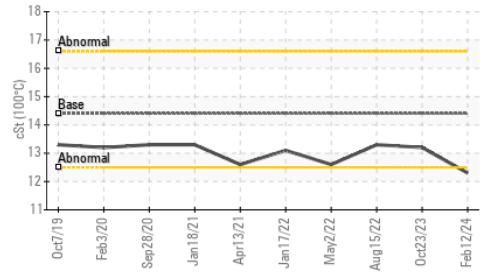
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**IL06101393**	IL06035601	IL05655166
Sample Date		Client Info		**12 Feb 2024**	23 Oct 2023	15 Aug 2022
Machine Age	hrs	Client Info		**15203**	14871	13141
Oil Age	hrs	Client Info		**0**	0	0
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Filter Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**MARGINAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	**39**	40	26
Chromium	ppm	ASTM D5185m	>20	**3**	2	3
Nickel	ppm	ASTM D5185m	>4	**1**	2	1
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**14**	11	8
Lead	ppm	ASTM D5185m	>40	**<1**	<1	0
Copper	ppm	ASTM D5185m	>330	**1**	2	<1
Tin	ppm	ASTM D5185m	>15	**<1**	<1	0
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	**8**	5	3
Potassium	ppm	ASTM D5185m	>20	**13**	11	8
Fuel	%	ASTM D3524	>5	▲ **3.7**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol	%	*ASTM D2982		**NEG**	NEG	NEG
Soot %	%	*ASTM D7844	>3	**0.7**	1.2	0.7
Nitration	Abs/cm	*ASTM D7624	>20	**9.3**	12.4	12.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	**20.2**	23.7	23.5
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	**1**	0	2
Boron	ppm	ASTM D5185m	250	**5**	2	22
Barium	ppm	ASTM D5185m	10	**1**	12	2
Molybdenum	ppm	ASTM D5185m	100	**61**	59	28
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	450	**832**	910	743
Calcium	ppm	ASTM D5185m	3000	**981**	1098	1370
Phosphorus	ppm	ASTM D5185m	1150	**954**	947	860
Zinc	ppm	ASTM D5185m	1350	**1124**	1204	1054
Sulfur	ppm	ASTM D5185m	4250	**3143**	3190	3558
Oxidation	Abs/.1mm	*ASTM D7414	>25	**16.5**	21.2	19.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	**8.9**	8.3	9.4
Visc @ 100°C	cSt	ASTM D445	14.4	▲ **12.3**	13.2	13.3

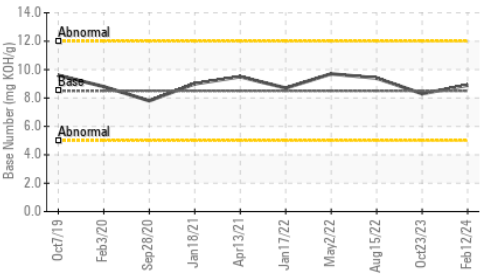
Fuel Dilution



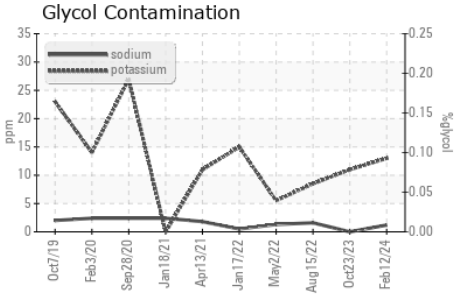
Viscosity @ 100°C



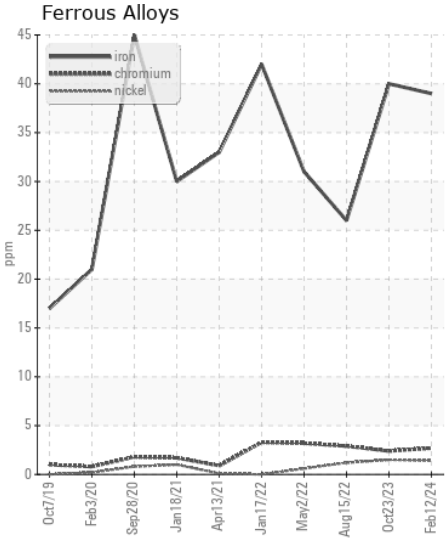
Base Number



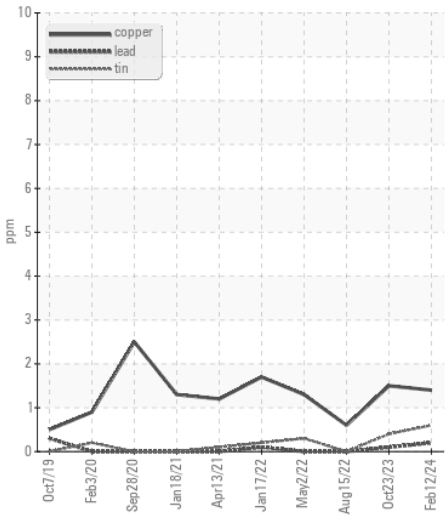
Glycol Contamination



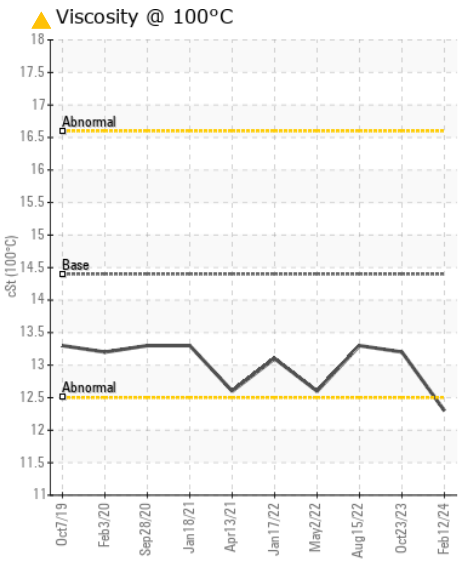
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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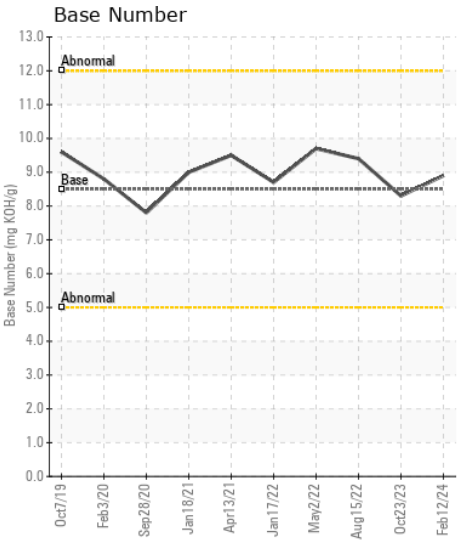

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL06101393
Lab Number : 06101393
Unique Number : 10899623
Test Package : FLEET (Additional Tests: FuelDilution, Glycol, PercentFuel)

Received : 27 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 29 Feb 2024 - Jonathan Hester

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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