IDEALEASE FLEET

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
8117465
Component
Diesel Engine
Fluid
VALVOLINE 15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

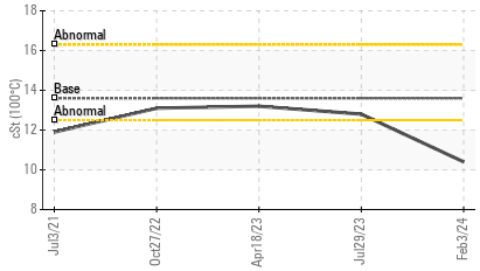
Fuel content negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

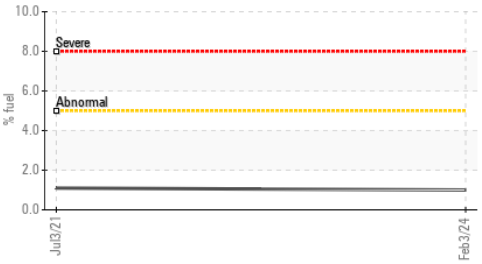
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**IL0035062**	IL05952599	IL05832377
Sample Date		Client Info		**03 Feb 2024**	29 Jul 2023	18 Apr 2023
Machine Age	mls	Client Info		**202880**	181911	159269
Oil Age	mls	Client Info		**0**	40000	0
Filter Age	mls	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	N/A	N/A
Filter Changed		Client Info		**Changed**	N/A	N/A
Sample Status				**ATTENTION**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	**16**	35	36
Chromium	ppm	ASTM D5185m	>20	**<1**	1	2
Nickel	ppm	ASTM D5185m	>4	**0**	<1	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m	>3	**<1**	0	0
Aluminum	ppm	ASTM D5185m	>20	**2**	4	5
Lead	ppm	ASTM D5185m	>40	**5**	<1	4
Copper	ppm	ASTM D5185m	>330	**2**	3	2
Tin	ppm	ASTM D5185m	>15	**<1**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	**6**	10	6
Potassium	ppm	ASTM D5185m	>20	**5**	8	8
Fuel	%	ASTM D3524	>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	**0.4**	0.6	0.7
Nitration	Abs/cm	*ASTM D7624	>20	**8.6**	12.8	12.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	**21.2**	23.8	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		**0**	4	3
Boron	ppm	ASTM D5185m	39	**53**	42	18
Barium	ppm	ASTM D5185m	1	**25**	0	0
Molybdenum	ppm	ASTM D5185m	49	**105**	66	70
Manganese	ppm	ASTM D5185m	1	**0**	<1	1
Magnesium	ppm	ASTM D5185m	616	**504**	726	851
Calcium	ppm	ASTM D5185m	1554	**1212**	1367	1388
Phosphorus	ppm	ASTM D5185m	899	**804**	730	766
Zinc	ppm	ASTM D5185m	1069	**923**	996	1036
Sulfur	ppm	ASTM D5185m	2624	**2480**	3093	2672
Oxidation	Abs/.1mm	*ASTM D7414	>25	**15.6**	22.6	26.0
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	**4.8**	6.0	4.3
Visc @ 100°C	cSt	ASTM D445	13.6	▲ **10.4**	12.8	13.2

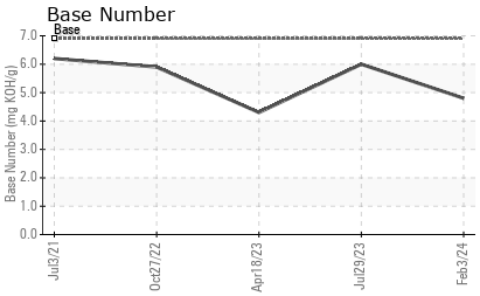
Viscosity @ 100°C



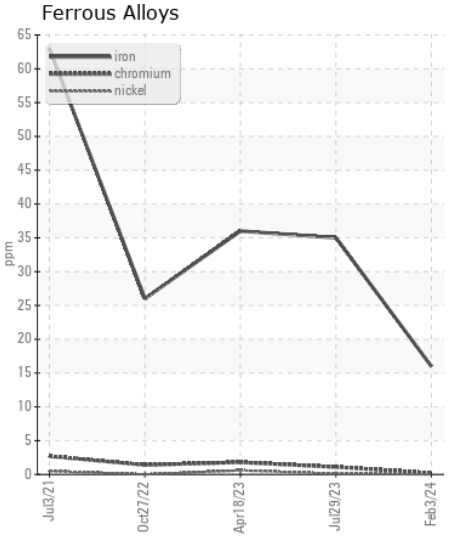
Fuel Dilution



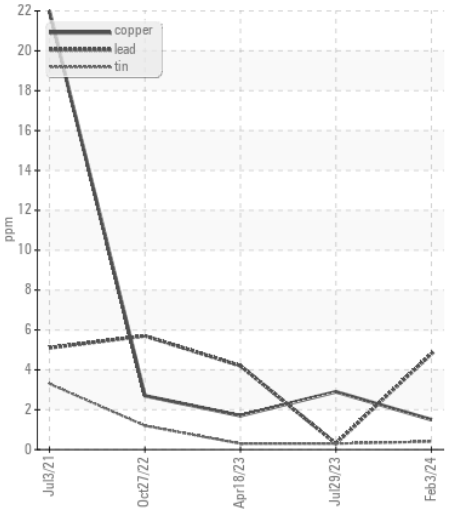
Base Number



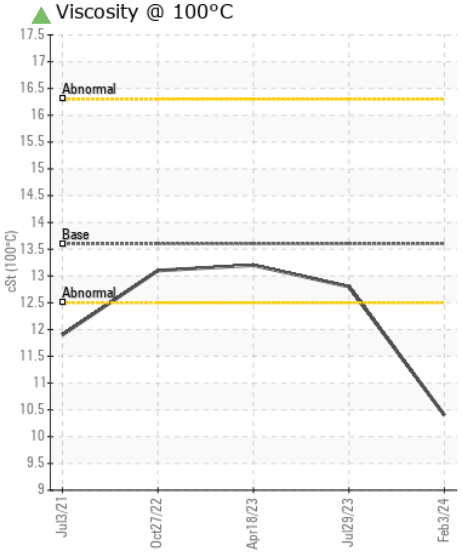
Ferrous Alloys



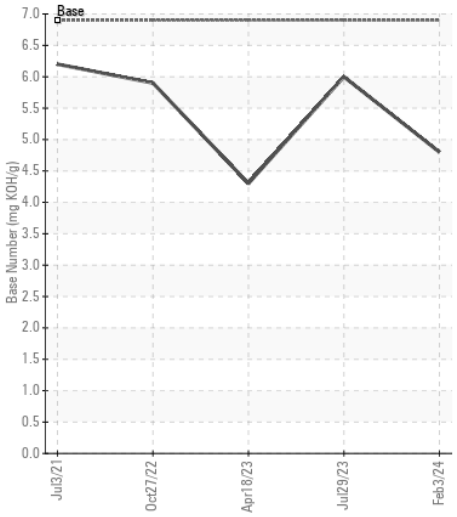
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0035062 **Received** : 09 Feb 2024
Lab Number : 06084576 **Tested** : 13 Feb 2024
Unique Number : 10872021 **Diagnosed** : 13 Feb 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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)

TAMPA IDEALEASE
5951 ORIENT ROAD
TAMPA, FL
US 33610-9565
Contact: Russ Cook
russcook@idealease.com
T: (813)626-9285
F: (844)270-1356