IDEALEASE FLEET

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
8114764
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

RECOMMENDATION

The oil is near the end of it`s useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

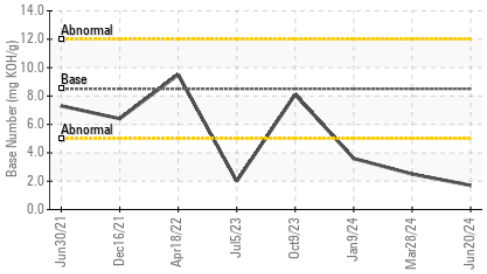
There is no indication of any contamination in the oil.

FLUID CONDITION

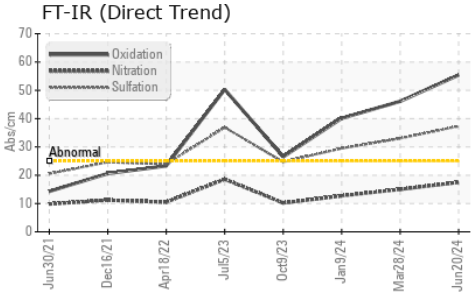
The BN level is low. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0035787	IL0031056	IL0034898
Sample Date		Client Info		20 Jun 2024	28 Mar 2024	09 Jan 2024
Machine Age	mls	Client Info		107777	102674	97586
Oil Age	mls	Client Info		8555	0	0
Filter Age	mls	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				ABNORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	78	37	23
Chromium	ppm	ASTM D5185m	>20	3	1	<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	10	7	6
Lead	ppm	ASTM D5185m	>40	9	5	4
Copper	ppm	ASTM D5185m	>330	3	2	<1
Tin	ppm	ASTM D5185m	>15	<1	0	1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	25	17	15
Potassium	ppm	ASTM D5185m	>20	21	17	14
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	1	0.8	0.7
Nitration	Abs/cm	*ASTM D7624	>20	17.5	15.0	12.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	37.3	33.0	29.5
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		4	4	2
Boron	ppm	ASTM D5185m	250	20	21	21
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	47	39	37
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m	450	562	438	454
Calcium	ppm	ASTM D5185m	3000	1879	1504	1432
Phosphorus	ppm	ASTM D5185m	1150	829	654	700
Zinc	ppm	ASTM D5185m	1350	1010	766	822
Sulfur	ppm	ASTM D5185m	4250	2933	2339	2164
Oxidation	Abs/.1mm	*ASTM D7414	>25	55.4	46.1	40.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	▲ 1.7	▲ 2.5	3.6
Visc @ 100°C	cSt	ASTM D445	10.9	11.3	10.8	9.2

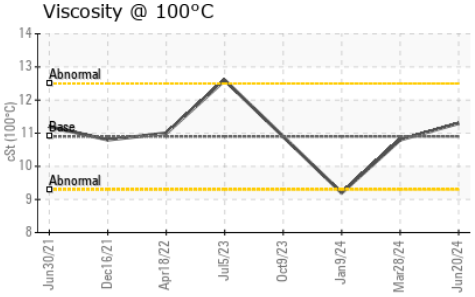
Base Number



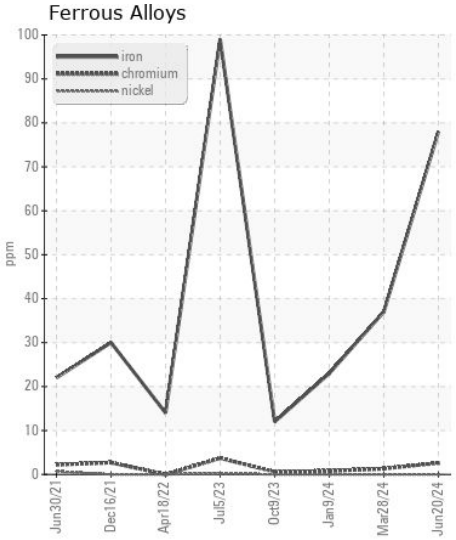
FT-IR (Direct Trend)



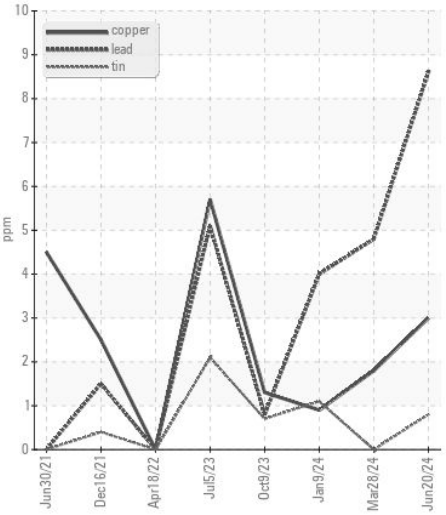
Viscosity @ 100°C



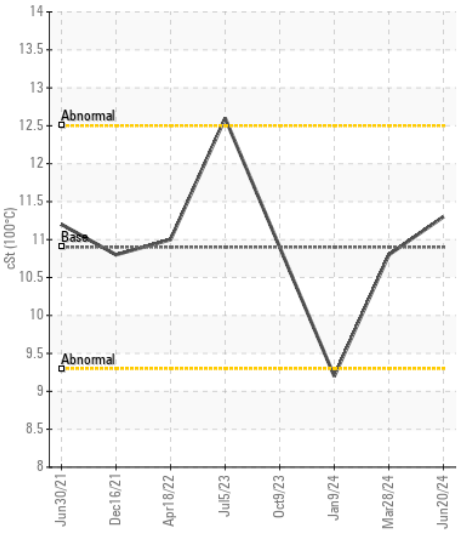
Ferrous Alloys



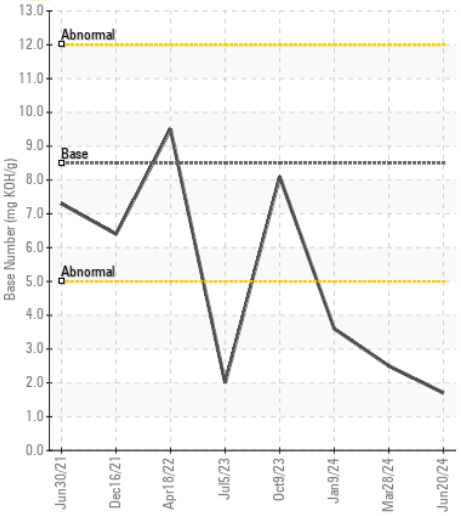
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0035787
Lab Number : 06223233
Unique Number : 11101430
Test Package : FLEET

Received : 28 Jun 2024
Tested : 28 Jun 2024
Diagnosed : 30 Jun 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)

IDEALEASE OF ATLANTA - FULTON
4675 BAKERS FERRY ROAD
ATLANTA, GA
US 30331
Contact: DAVID JOHNS
davidjohns@idealease.com
T: (404)699-5571
F: (404)699-7420