CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
OKLAHOMA/1151/EG - OTHER SERVICE
Machine Id
86.100A [OKLAHOMA^1151^EG - OTHER SERVICE]
Component
Diesel Engine
Fluid
MOBIL 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

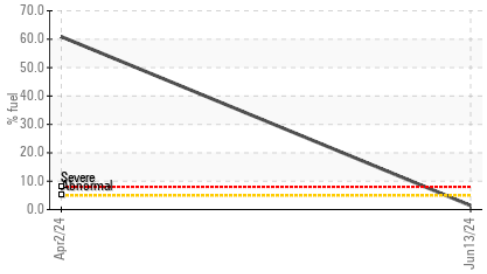
Fuel content negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

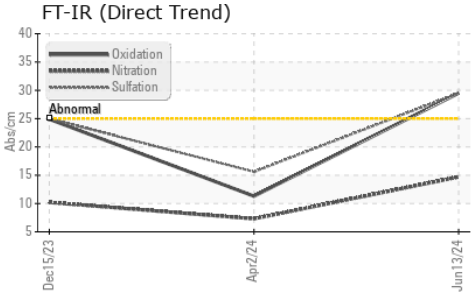
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0935116	WC0914564	WC0874026
Sample Date		Client Info		13 Jun 2024	02 Apr 2024	15 Dec 2023
Machine Age	hrs	Client Info		1058	12112	11780
Oil Age	hrs	Client Info		12112	332	250
Filter Age	hrs	Client Info		12112	332	250
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	SEVERE	ABNORMAL
Iron	ppm	ASTM D5185m	>100	73	38	89
Chromium	ppm	ASTM D5185m	>20	2	2	4
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	6	2	6
Lead	ppm	ASTM D5185m	>40	4	5	18
Copper	ppm	ASTM D5185m	>330	7	8	35
Tin	ppm	ASTM D5185m	>15	2	2	<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	8	9	▲ 29
Potassium	ppm	ASTM D5185m	>20	3	2	17
Fuel	%	ASTM D3524	>5	1.4	▲ 60.9	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.9	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	14.7	7.3	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.5	15.6	25.0
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	>118	16	<1	48
Boron	ppm	ASTM D5185m		46	19	33
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		46	15	54
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		590	184	535
Calcium	ppm	ASTM D5185m		2161	▲ 691	1794
Phosphorus	ppm	ASTM D5185m		871	▲ 294	734
Zinc	ppm	ASTM D5185m		1150	▲ 346	969
Sulfur	ppm	ASTM D5185m		3113	▲ 954	2524
Oxidation	Abs/.1mm	*ASTM D7414	>25	29.5	11.3	24.9
Base Number (BN)	mg KOH/g	ASTM D2896		8.5	7.2	9.3
Visc @ 100°C	cSt	ASTM D445		15.0	▲ 3.0	13.9

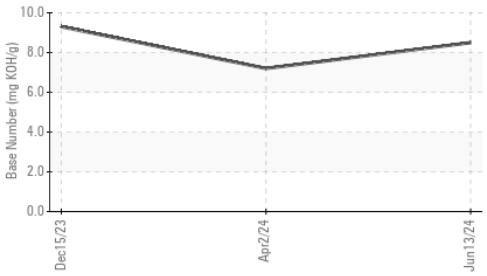
Fuel Dilution



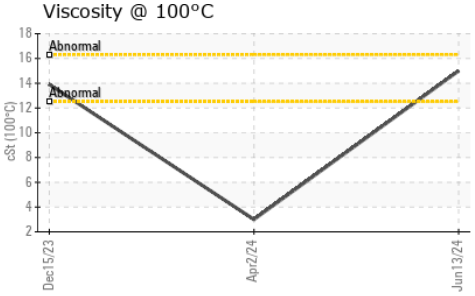
FT-IR (Direct Trend)



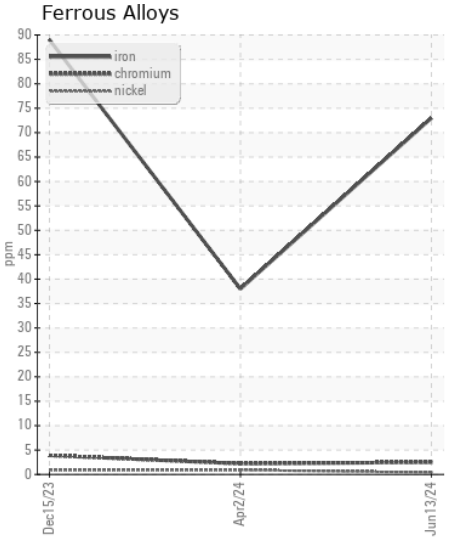
Base Number



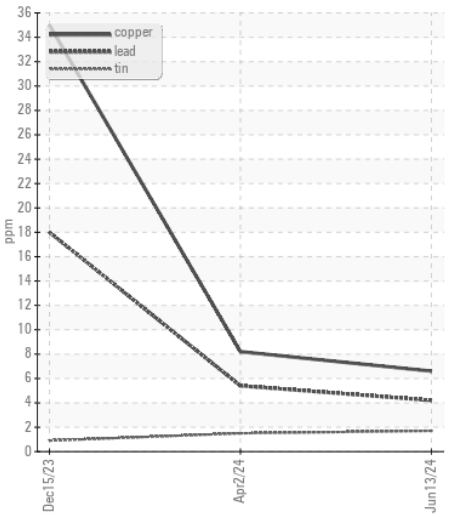
Viscosity @ 100°C



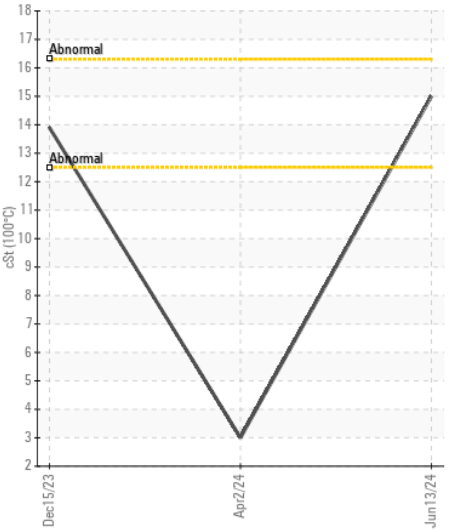
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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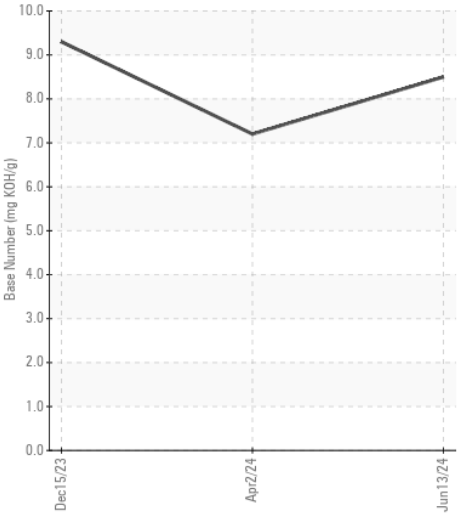

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0935116
Lab Number : 06215628
Unique Number : 11088492
Test Package : CONST (Additional Tests: PercentFuel, TBN)

Received : 20 Jun 2024
Tested : 24 Jun 2024
Diagnosed : 24 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)

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