



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FREIGHTLINER 13081
Component
Diesel Engine
Fluid
MOBIL 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0936722	WC0915955	WC0882315
Sample Date		Client Info		15 May 2024	11 Mar 2024	06 Dec 2023
Machine Age	mls	Client Info		197478	191496	180530
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		8390	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>130	62	53	36
Chromium	ppm	ASTM D5185m	>10	2	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	8	7	5
Lead	ppm	ASTM D5185m	>20	<1	0	<1
Copper	ppm	ASTM D5185m	>125	2	2	1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

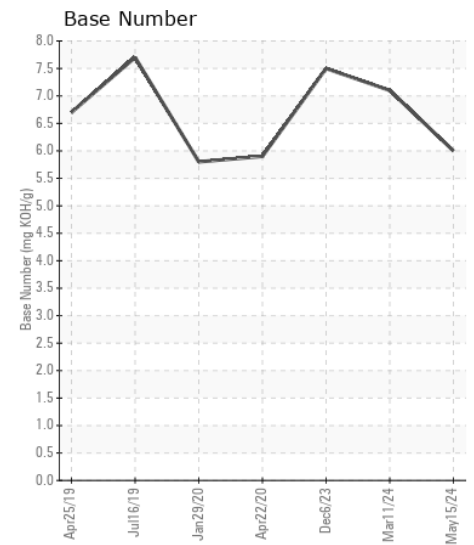
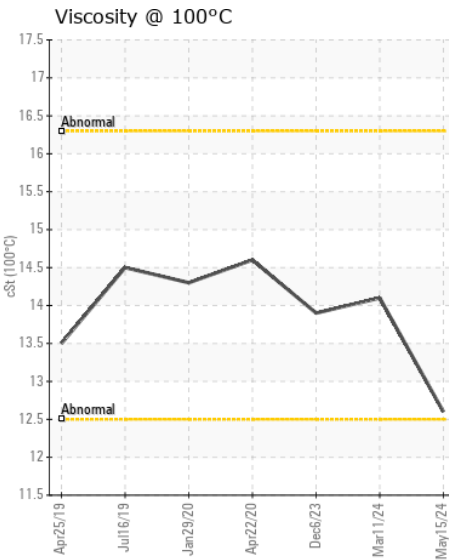
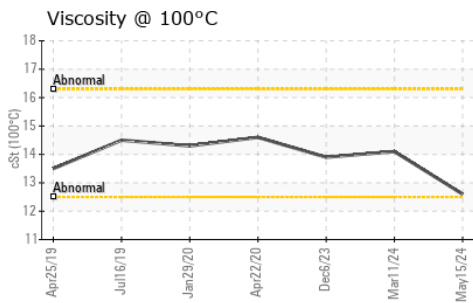
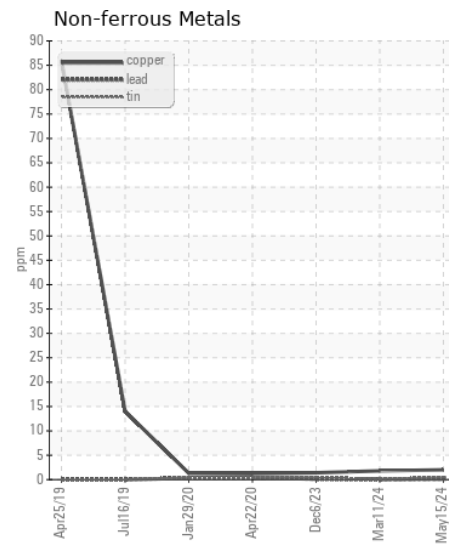
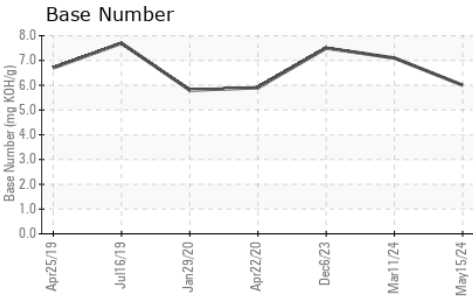
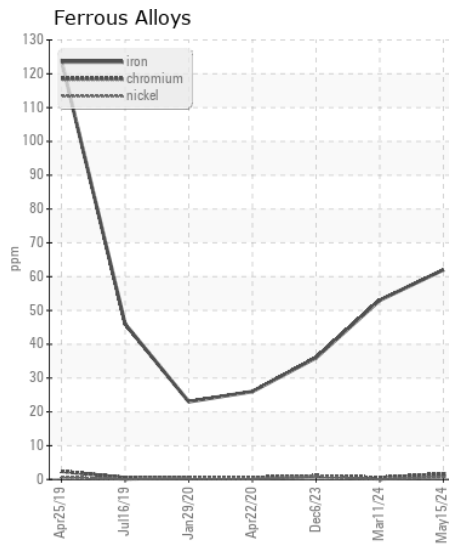
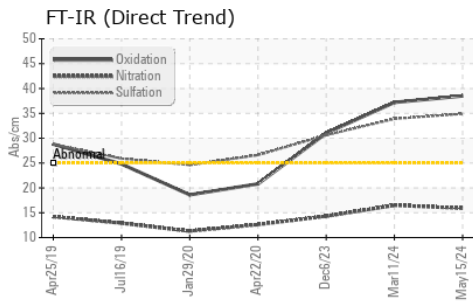
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	12	8	8
Potassium	ppm	ASTM D5185m	>20	4	<1	5
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.6	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	15.9	16.5	14.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	34.9	33.9	30.6
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

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.

Sodium	ppm	ASTM D5185m	>118	2	1	0
Boron	ppm	ASTM D5185m		179	192	129
Barium	ppm	ASTM D5185m		0	0	11
Molybdenum	ppm	ASTM D5185m		166	156	121
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		797	859	1120
Calcium	ppm	ASTM D5185m		2058	2018	1778
Phosphorus	ppm	ASTM D5185m		1053	921	1168
Zinc	ppm	ASTM D5185m		1349	1120	1439
Sulfur	ppm	ASTM D5185m		3309	2684	3403
Oxidation	Abs/.1mm	*ASTM D7414	>25	38.5	37.2	31.0
Base Number (BN)	mg KOH/g	ASTM D2896		6.0	7.1	7.5
Visc @ 100°C	cSt	ASTM D445		12.6	14.1	13.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0936722
Lab Number : 06188539
Unique Number : 11045291
Test Package : FLEET

Received : 22 May 2024
Tested : 24 May 2024
Diagnosed : 28 May 2024 - Don Baldrige

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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)