



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1783
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 10W30 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0886768	WC0802089	WC0626806
Sample Date		Client Info		03 May 2024	25 Jul 2023	22 Feb 2023
Machine Age	hrs	Client Info		1290	928	324122
Oil Age	hrs	Client Info		1290	928	0
Filter Age	hrs	Client Info		1290	928	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	18	15	▲ 179
Chromium	ppm	ASTM D5185m	>20	<1	<1	7
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	▲ 79
Lead	ppm	ASTM D5185m	>40	4	1	<1
Copper	ppm	ASTM D5185m	>330	0	<1	7
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

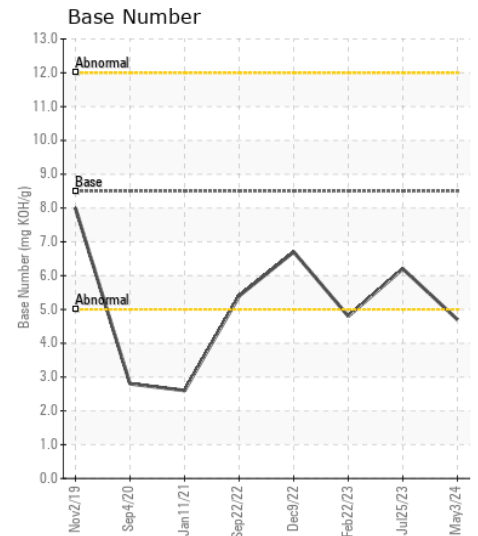
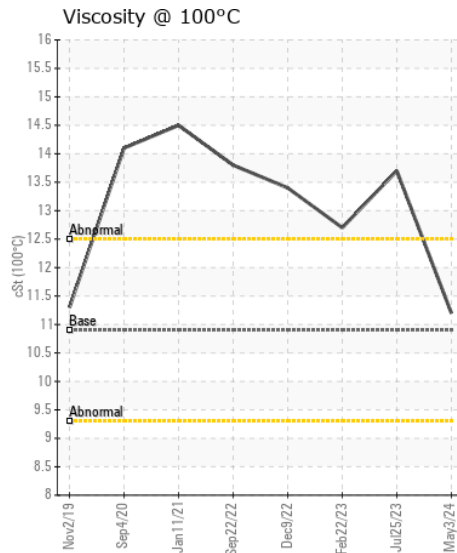
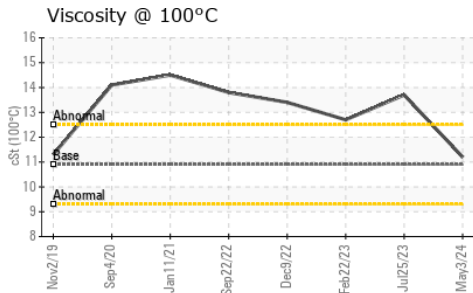
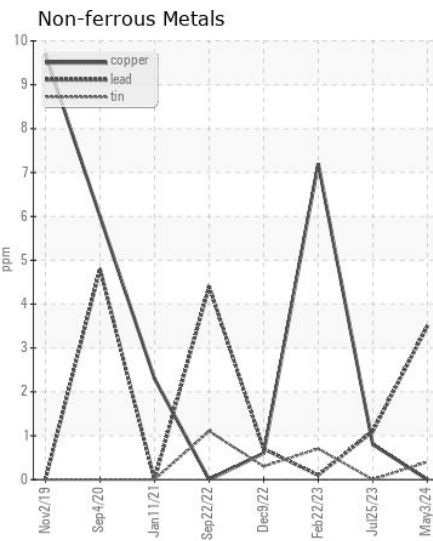
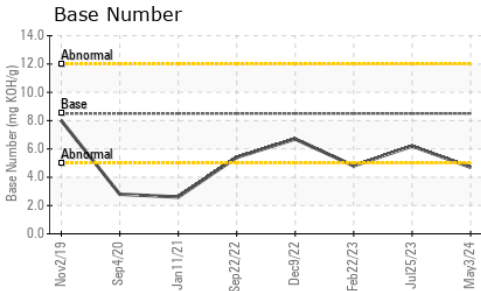
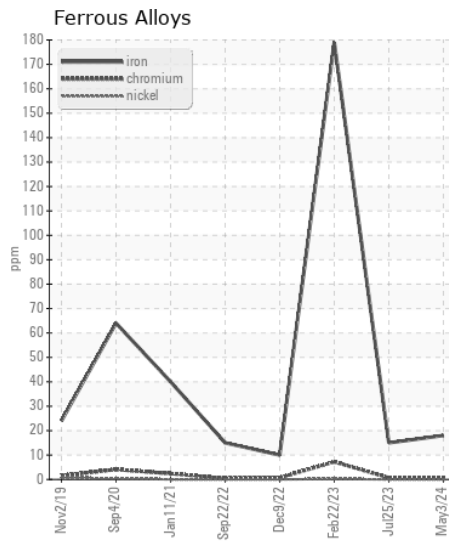
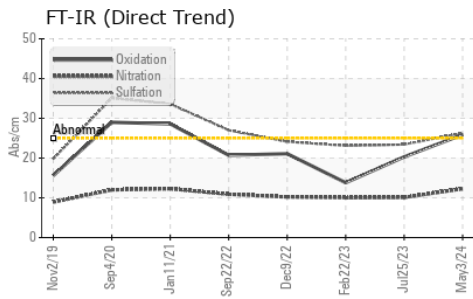
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	4	5	14
Potassium	ppm	ASTM D5185m	>20	2	0	▲ 68
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.6
Nitration	Abs/cm	*ASTM D7624	>20	12.3	10.1	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.3	23.4	23.1
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		2	2	1
Boron	ppm	ASTM D5185m	250	4	45	4
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	61	60	14
Manganese	ppm	ASTM D5185m		<1	<1	3
Magnesium	ppm	ASTM D5185m	450	941	389	59
Calcium	ppm	ASTM D5185m	3000	1144	1842	2291
Phosphorus	ppm	ASTM D5185m	1150	1087	1018	801
Zinc	ppm	ASTM D5185m	1350	1266	1274	995
Sulfur	ppm	ASTM D5185m	4250	3334	3533	3388
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.9	20.3	13.8
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	4.7	6.2	4.8
Visc @ 100°C	cSt	ASTM D445	10.9	11.2	13.7	12.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0886768
Lab Number : 06175286
Unique Number : 11021339
Test Package : FLEET

Received : 10 May 2024
Tested : 13 May 2024
Diagnosed : 13 May 2024 - Don Baldrige

CARCO TRANSPORTATION
 2801 MIDLAND BLVD.
 FORT SMITH, AR
 US 72904
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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)