



WEAR CHECK

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
176
 Component
Diesel Engine
 Fluid
VALVOLINE PREMIUM BLUE 2000 15W40 (--- QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0811882	WC0863930	WC0863926
Sample Date		Client Info		06 Apr 2024	02 Jan 2024	17 Nov 2023
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		15000	15000	15000
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				ABNORMAL	NORMAL	NORMAL

WEAR

Cylinder, crank, or cam shaft wear is indicated.

Iron	ppm	ASTM D5185m	>100	▲ 175	39	80
Chromium	ppm	ASTM D5185m	>20	3	<1	3
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	9	6	9
Lead	ppm	ASTM D5185m	>40	6	1	4
Copper	ppm	ASTM D5185m	>330	<1	0	<1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

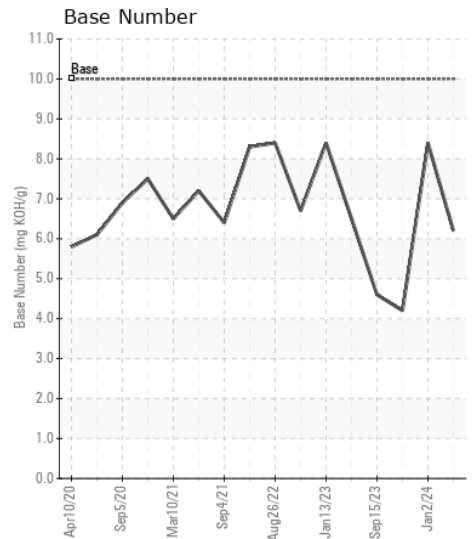
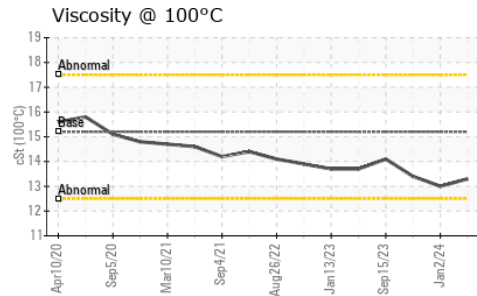
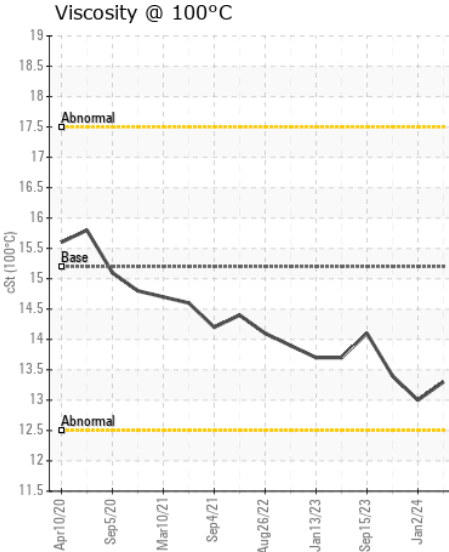
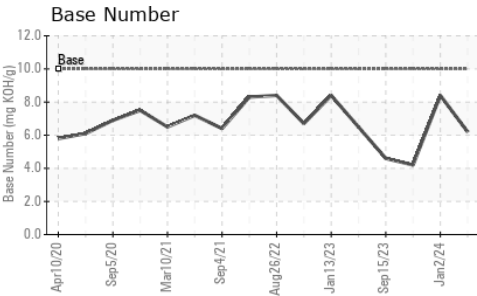
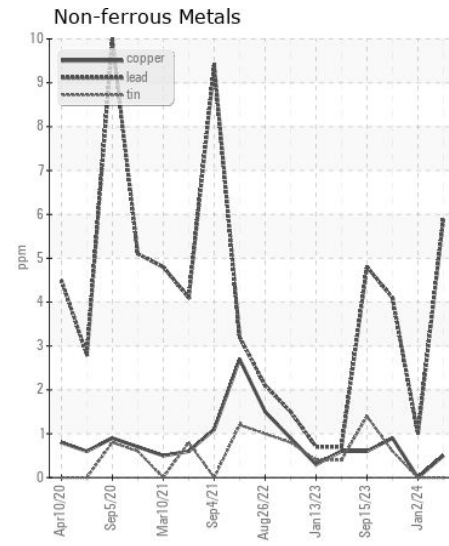
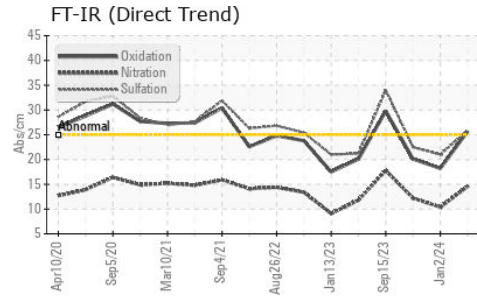
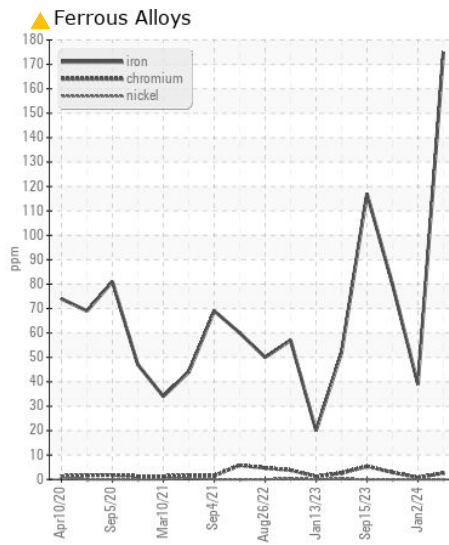
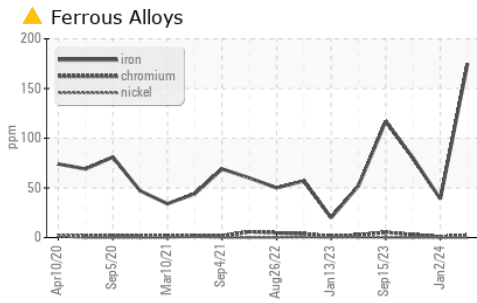
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	11	7	10
Potassium	ppm	ASTM D5185m	>20	8	5	12
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	1.8	0.8	1.6
Nitration	Abs/cm	*ASTM D7624	>20	14.6	10.4	12.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.8	21.0	22.5
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

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		3	<1	3
Boron	ppm	ASTM D5185m		29	30	24
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		54	59	63
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		674	727	710
Calcium	ppm	ASTM D5185m		1317	1152	1222
Phosphorus	ppm	ASTM D5185m		764	696	695
Zinc	ppm	ASTM D5185m		895	846	879
Sulfur	ppm	ASTM D5185m		2701	2162	2259
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.7	18.2	20.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.0	6.2	8.4	4.2
Visc @ 100°C	cSt	ASTM D445	15.2	13.3	13.0	13.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0811882
Lab Number : **06159667**
Unique Number : 10995090
Test Package : FLEET

Received : 24 Apr 2024
Tested : 25 Apr 2024
Diagnosed : 26 Apr 2024 - Sean Felton

TALLEN TRANSPORT
 262 COUNTY ROAD 580
 MADISONVILLE, TN
 US 37303
 Contact: COBY JOHNSON
 tallenttransport@gmail.com

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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F: