

OIL ANALYSIS REPORT

Sample Number

hrs

hrs

Sample Date

Machine Age

Oil Changed

Sample Status

Oil Age

Nitration

Sulfation

CFR#41795 [224423] 06D0312076

Component **Diesel Engine DIESEL ENGINE OIL SAE 40 (--- LTR)**

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

A Wear

Tin ppm levels are severe. Lead ppm levels are noted. A sharp increase in the lead level is noted. Piston wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.



CONTAMINATION		method	limit/base	current	history1	history2
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
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>101	14	16	11
Chromium	ppm	ASTM D5185(m)	>16	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>6	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>21	0	<1	<1
Lead	ppm	ASTM D5185(m)	>41	<mark> </mark> 25	12	4
Copper	ppm	ASTM D5185(m)	>21	20	22	34
Tin	ppm	ASTM D5185(m)	>13	4 52	3	3
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	0	10	22
Barium	ppm	ASTM D5185(m)	10	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	105	2	2
Manganese	ppm	ASTM D5185(m)		<1	0	<1
Magnesium	ppm	ASTM D5185(m)	450	14	50	46
Calcium	ppm	ASTM D5185(m)	3000	2380	1574	1580
Phosphorus	ppm	ASTM D5185(m)	1150	946	598	591
Zinc	ppm	ASTM D5185(m)	1350	1026	679	746
Sulfur	ppm	ASTM D5185(m)	4250	4507	2227	2312
Lithium	ppm	ASTM D5185(m)		<1	<1	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>16	15	2 3	12
Sodium	ppm	ASTM D5185(m)	>216	8	11	8
Potassium	ppm	ASTM D5185(m)	>20	4	<1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>0.8	0	0	0

3.8

13.7

Abs/cm ASTM D7624* >20

Abs/.1mm ASTM D7415* >30

3.6

14.6

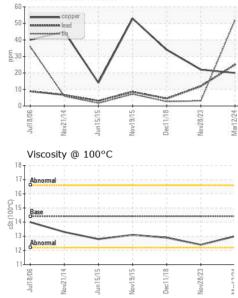
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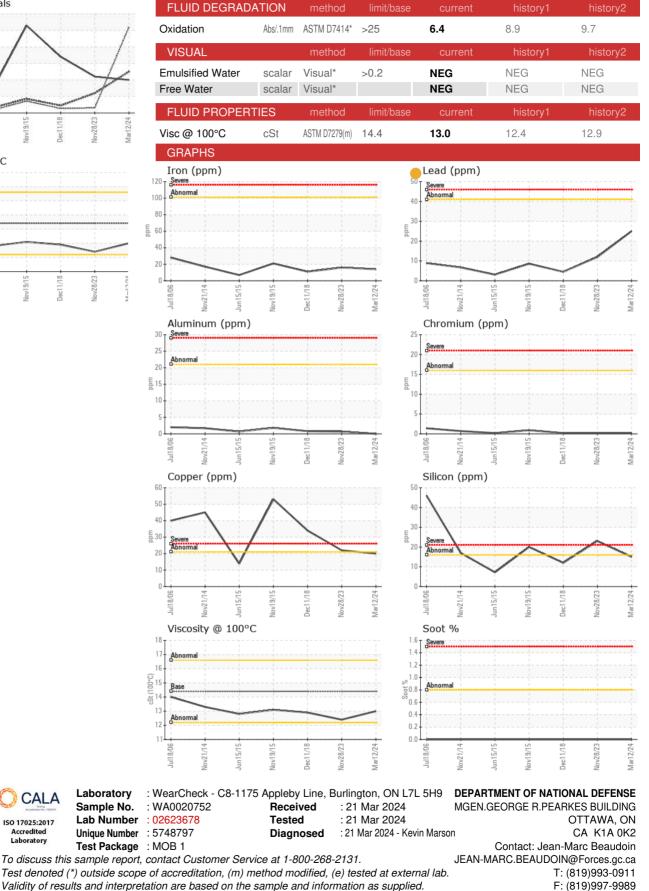
15.3



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Validity of results and interpretation are based on the sample and information as supplied. Report Id: DEPOTT [WCAMIS] 02623678 (Generated: 03/21/2024 15:00:07) Rev: 1

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