

OIL ANALYSIS REPORT

[1306892] 114012

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

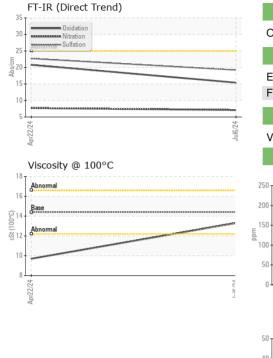
Fluid Condition

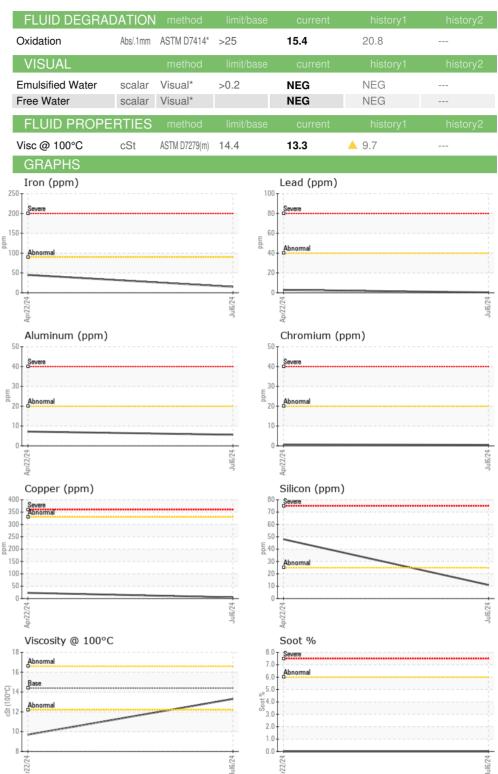
The condition of the oil is acceptable for the time in service.

			Apr2024	Jul2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0124688	GFL0118506	
Sample Date		Client Info		06 Jul 2024	22 Apr 2024	
Machine Age	hrs	Client Info		840	180	
Oil Age	hrs	Client Info		600	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.3	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	15	45	
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	
Titanium	ppm	ASTM D5185(m)	>2	0	0	
Silver	ppm	ASTM D5185(m)	>2	<1	<1	
Aluminum	ppm	ASTM D5185(m)	>20	6	7	
Lead	ppm	ASTM D5185(m)	>40	<1	3	
Copper	ppm	ASTM D5185(m)	>330	5	23	
Tin	ppm	ASTM D5185(m)	>15	<1	2	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	5	49	
Barium	ppm	ASTM D5185(m)	10	<1	5	
Molybdenum	ppm	ASTM D5185(m)	100	57	50	
Manganese	ppm	ASTM D5185(m)		<1	5	
Magnesium	ppm	ASTM D5185(m)	450	917	561	
Calcium	ppm	ASTM D5185(m)	3000	1068	1551	
Phosphorus	ppm	ASTM D5185(m)	1150	956	714	
Zinc	ppm	ASTM D5185(m)	1350	1146	840	
Sulfur	ppm	ASTM D5185(m)	4250	2469	1925	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	11	48	
Sodium	ppm	ASTM D5185(m)	>158	4	5	
Potassium	ppm	ASTM D5185(m)	>20	14	16	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0	0	
Nitration	Abs/cm	ASTM D7624*	>20	7.1	7.7	
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.2	22.7	



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Unique Number : 5812444 Test Package : MOB 1

: GFL0124688 Lab Number : 02646892

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 207 - Pickering SW Received : 10 Jul 2024 **Tested** : 10 Jul 2024

Diagnosed : 10 Jul 2024 - Wes Davis

1034 TOY AVENUE, PICKERING YARD

PICKERING, ON CA L1W 3P1 Contact: Ian Patton ipatton@gflenv.com

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To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.