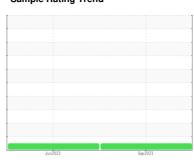


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **528022**

Component
Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

Fluid Condition

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

			Jun2023	Sep 2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0093779	GFL0084242	
Sample Date		Client Info		05 Sep 2023	05 Jun 2023	
Machine Age	kms	Client Info		549074	529397	
Oil Age	kms	Client Info		0	0	
Oil Changed	KIIIS	Client Info		Changed	Changed	
Sample Status		Olletti Ittio		NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
	ION	WC Method	>5		<1.0	Historyz
Fuel			>0	<1.0		
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	13	21	
Chromium	ppm	ASTM D5185(m)	>5	1	1	
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	
Titanium	ppm	ASTM D5185(m)		<1	<1	
Silver	ppm	ASTM D5185(m)	>3	0	0	
Aluminum	ppm	ASTM D5185(m)	>30	5	8	
Lead	ppm	ASTM D5185(m)	>30	0	0	
Copper	ppm	ASTM D5185(m)	>150	3	3	
Tin	ppm	ASTM D5185(m)	>5	0	0	
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	3	18	
Barium	ppm	ASTM D5185(m)	10	0	<1	
Molybdenum	ppm	ASTM D5185(m)	100	60	73	
Manganese	ppm	ASTM D5185(m)		<1	<1	
Magnesium	ppm	ASTM D5185(m)	450	956	935	
Calcium	ppm	ASTM D5185(m)	3000	1034	1155	
Phosphorus	ppm	ASTM D5185(m)	1150	1017	980	
Zinc	ppm	ASTM D5185(m)	1350	1188	1117	
Sulfur	ppm	ASTM D5185(m)	4250	2381	2280	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	5	7	
Sodium	ppm	ASTM D5185(m)	>216	2	8	
Potassium	ppm	ASTM D5185(m)	>20	3	4	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.2	0.4	
Nitration	Abs/cm	ASTM D7644*	>20	7.8	9.1	
Sulfation	Abs/.1mm	ASTM D7624 ASTM D7415*	>30	19.3	21.1	
FLUID DEGRA Oxidation			limit/base	current	history1	history2
	Abs/.1mm	ASTM D7414*	>25	15.6	17.7	



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

Test Package : MOB 1

: GFL0093779 : 02583073 Unique Number : 5644138

Received Diagnosed Diagnostician

: 18 Sep 2023 : 18 Sep 2023

: Wes Davis

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 252 - GTA Hauling 3668 Weston Road North York, ON CA M9L 1W2 Contact: Tom Hatzioannidis thatzioannidis@gflenv.com

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.

T: (416)406-2040