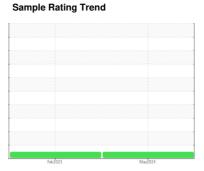


OIL ANALYSIS REPORT



Machine Id **MACK 928130 Diesel Engine**

PETRO CANADA DURON HP 15W40 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

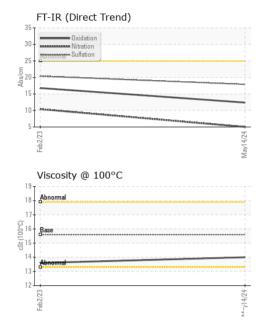
Fluid Condition

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

)N HP 15W4U (-	GAL)		Feb 2023	May2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122279	GFL0071111	
Sample Date		Client Info		14 May 2024	02 Feb 2023	
Machine Age	kms	Client Info		11986	320588	
Oil Age	kms	Client Info		706	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAI	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>120	2	9	
Chromium	ppm	ASTM D5185(m)	>20	0	<1	
Nickel	ppm	ASTM D5185(m)	>5	0	<1	
Titanium	ppm	ASTM D5185(m)	>2	0	0	
Silver	ppm	ASTM D5185(m)	>2	0	0	
Aluminum	ppm	ASTM D5185(m)	>20	2	4	
_ead	ppm	ASTM D5185(m)	>40	0	0	
Copper	ppm	ASTM D5185(m)	>330	<1	2	
Γin	ppm	ASTM D5185(m)	>15	0	<1	
Antimony	ppm	ASTM D5185(m)		0	<1	
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)	0	4	4	
Barium	ppm	ASTM D5185(m)	0	0	0	
Molybdenum	ppm	ASTM D5185(m)	60	55	59	
Manganese	ppm	ASTM D5185(m)	0	0	<1	
Magnesium	ppm	ASTM D5185(m)	1010	914	952	
Calcium	ppm	ASTM D5185(m)	1070	978	1112	
Phosphorus	ppm	ASTM D5185(m)	1150	936	1070	
Zinc	ppm	ASTM D5185(m)	1270	1113	1216	
Sulfur	ppm	ASTM D5185(m)	2060	2438	2566	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	1	8	
Sodium	ppm	ASTM D5185(m)		1	4	
Potassium	ppm	ASTM D5185(m)	>20	0	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0	0	
Nitration	Abs/cm	ASTM D7624*	>20	5.0	10.4	
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.9	20.4	



OIL ANALYSIS REPORT





Silicon (ppm)

Soot %

E 40

8.0 6.0

2.0

0.0



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: GFL0122279 Lab Number : 02637369 Unique Number : 5786531

12

Test Package : MOB 1 (Additional Tests: Visual)

Copper (ppm)

Viscosity @ 100°C

E 200

100

Received **Tested** Diagnosed

: 24 May 2024 : 24 May 2024 : 24 May 2024 - Wes Davis

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 987 - Charlottetown 7 Superior Crescent Charlottetown, PE CA C1A 7N5 Contact: Vicki Metcalfe

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: (782)377-5918 F: (506)453-9490

Contact/Location: Vicki Metcalfe - GFL987

vmetcalfe@gflenv.com