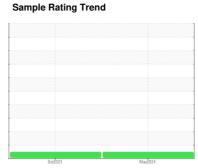


OIL ANALYSIS REPORT

EDADT







Machine Id
401107
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

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.

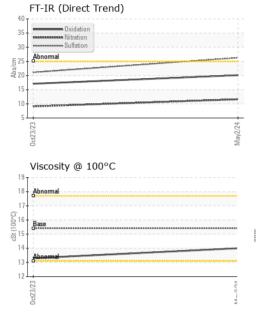
Fluid Condition

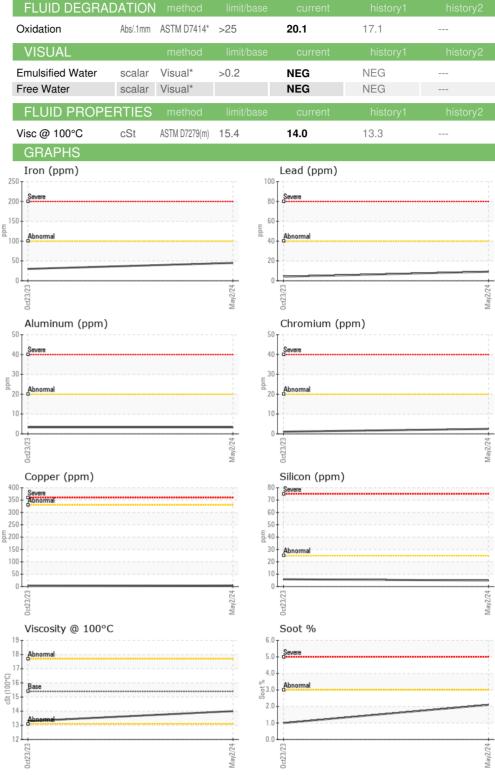
The condition of the oil is acceptable for the time in service.

		Y				
GAL)			0ct2023	May2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096809	GFL0096722	
Sample Date		Client Info		02 May 2024	23 Oct 2023	
Machine Age	hrs	Client Info		0	836215	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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
Iron	ppm	ASTM D5185(m)	>100	45	30	
Chromium	ppm	ASTM D5185(m)	>20	2	1	
Nickel	ppm	ASTM D5185(m)	>4	0	0	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	>3	0	<1	
Aluminum	ppm	ASTM D5185(m)	>20	3	3	
Lead	ppm	ASTM D5185(m)	>40	9	4	
Copper	ppm	ASTM D5185(m)	>330	4	2	
Tin	ppm	ASTM D5185(m)	>15	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)	0	3	4	
Barium	ppm	ASTM D5185(m)	0	<1	<1	
Molybdenum	ppm	ASTM D5185(m)	60	64	59	
Manganese	ppm	ASTM D5185(m)	0	<1	0	
Magnesium	ppm	ASTM D5185(m)	1010	1031	961	
Calcium	ppm	ASTM D5185(m)	1070	1144	1047	
Phosphorus	ppm	ASTM D5185(m)	1150	1017	969	
Zinc	ppm	ASTM D5185(m)	1270	1269	1177	
Sulfur	ppm	ASTM D5185(m)	2060	2451	2404	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	6	
Sodium	ppm	ASTM D5185(m)		5	5	
Potassium	ppm	ASTM D5185(m)	>20	9	6	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	2.1	1	
Nitration	Abs/cm	ASTM D7624*	>20	11.6	9.1	
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.3	21.1	
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OIL ANALYSIS REPORT







CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02636872 Unique Number : 5786034

: GFL0096809

Test Package : MOB 1

Received **Tested** Diagnosed

: 22 May 2024 : 22 May 2024

: 22 May 2024 - Wes Davis

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 574 - Vancouver Fleet 70 Golden Drive, Coquitlam, BC CA V3K 6B5 Contact: Gary Ewasiuk gewasiuk@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.

Contact/Location: Gary Ewasiuk - GFL574

T:

F: