

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 213032

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 10W30 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Elevated aluminum (AI) 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.

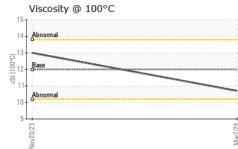
Fluid Condition

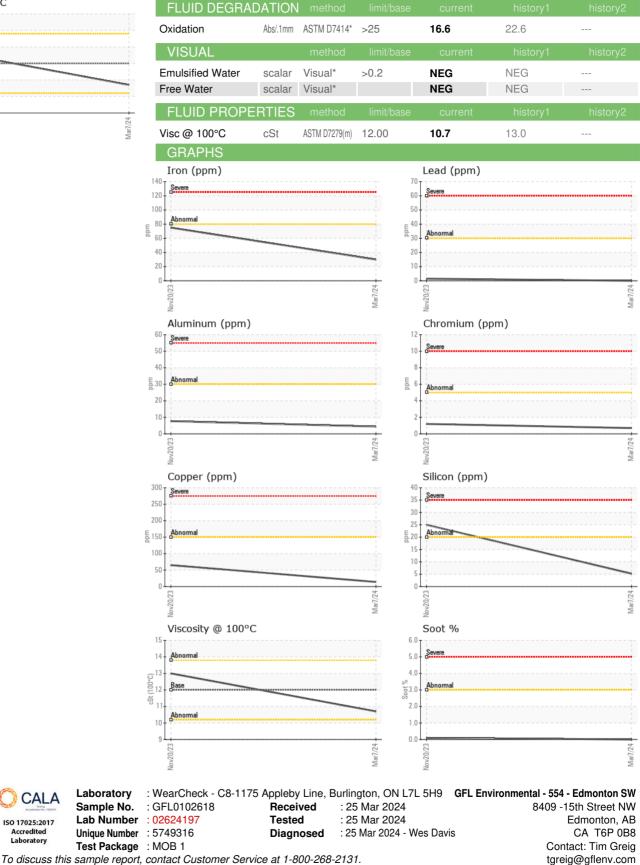
The condition of the oil is acceptable for the time in service.

LTR)			Nov2023	Mar2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102618	GFL0101718	
Sample Date		Client Info		07 Mar 2024	20 Nov 2023	
Machine Age	hrs	Client Info		889	392	
Oil Age	hrs	Client Info		497	392	
Oil Changed	1110	Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
		and the set	Provide Review	-		
CONTAMINA	HON	method	limit/base		history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	30	75	
Chromium	ppm	ASTM D5185(m)	>5	<1	1	
Nickel	ppm	ASTM D5185(m)	>2	0	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	>3	0	<1	
Aluminum	ppm	ASTM D5185(m)	>30	4	8	
Lead	ppm	ASTM D5185(m)	>30	0	2	
Copper	ppm	ASTM D5185(m)	>150	14	65	
Tin	ppm	ASTM D5185(m)	>5	0	<1	
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)	2	8	52	
Barium	ppm	ASTM D5185(m)	0	<1	8	
Molybdenum	ppm	ASTM D5185(m)	50	57	44	
Manganese	ppm	ASTM D5185(m)	0	0	5	
Magnesium	ppm	ASTM D5185(m)	950	918	560	
Calcium	ppm	ASTM D5185(m)	1050	1078	1626	
Phosphorus	ppm	ASTM D5185(m)	995	922	717	
Zinc	ppm	ASTM D5185(m)	1180	1122	892	
Sulfur	ppm	ASTM D5185(m)	2600	2260	1933	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	5	25	
Sodium	ppm	ASTM D5185(m)		1	6	
Potassium	ppm	ASTM D5185(m)	>20	6	8	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0.1	
Nitration	Abs/cm	ASTM D7624*		8.0	8.5	
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.2	23.5	
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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.

CALA

ISO 17025:2017 Accredited

Laboratory

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