

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 401190

Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- 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.

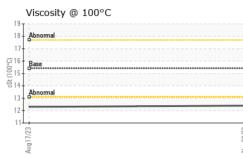
Fluid Condition

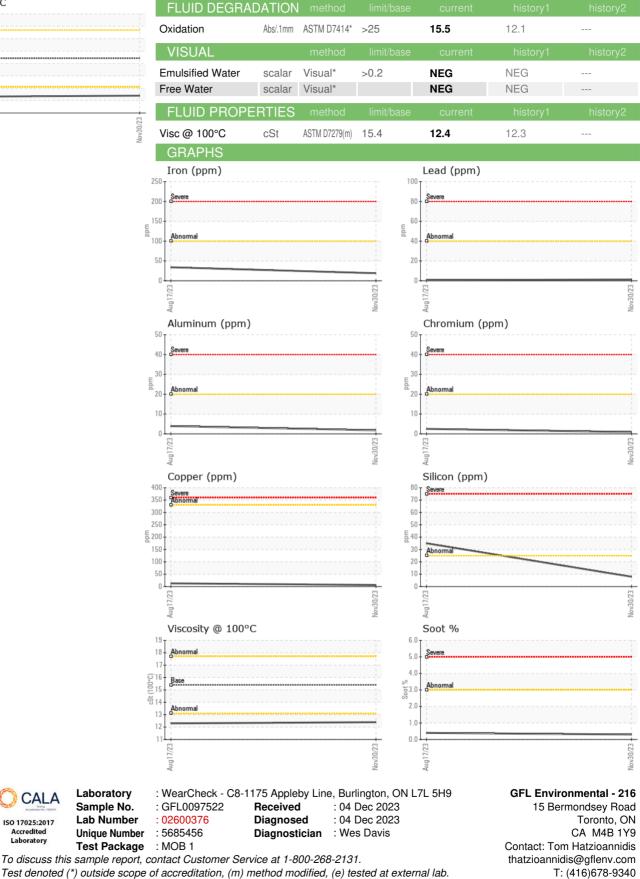
The condition of the oil is acceptable for the time in service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0097522	GFL0088932	
Sample Date		Client Info		30 Nov 2023	17 Aug 2023	
Machine Age	hrs	Client Info		25511	24930	
Oil Age	hrs	Client Info		581	2000	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	1.2	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	19	34	
Chromium	ppm	ASTM D5185(m)	>20	<1	2	
Nickel	ppm	ASTM D5185(m)	>4	<1	0	
Titanium	ppm	ASTM D5185(m)		0	<1	
Silver	ppm	ASTM D5185(m)	>3	<1	<1	
Aluminum	ppm	ASTM D5185(m)	>20	2	4	
Lead	ppm	ASTM D5185(m)	>40	1	<1	
Copper	ppm	ASTM D5185(m)	>330	6	13	
Tin	ppm	ASTM D5185(m)	>15	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)	0	8	9	
Barium	ppm	ASTM D5185(m)	0	<1	<1	
Molybdenum	ppm	ASTM D5185(m)	60	57	24	
Manganese	ppm	ASTM D5185(m)	0	0	<1	
Magnesium	ppm	ASTM D5185(m)	1010	904	300	
Calcium	ppm	ASTM D5185(m)	1070	1201	1945	
Phosphorus	ppm	ASTM D5185(m)	1150	1006	990	
Zinc	ppm	ASTM D5185(m)	1270	1204	1100	
Sulfur	ppm	ASTM D5185(m)	2060	2923	2920	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8	A 35	
Sodium	ppm	ASTM D5185(m)		2	6	
Potassium	ppm	ASTM D5185(m)	>20	0	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.3	0.4	
Nitration	Abs/cm	ASTM D7624*	>20	7.4	8.7	
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	20.4	



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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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