

WEAR NORMAL CONTAMINATION MARGINAL FLUID CONDITION NORMAL

Machine Id 69 Component Diesel Engine Fluid PETRO CANADA DURON HP 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

14			7
	1	-/-	1

Metal levels are typical for a new component breaking in.

CONTAMINATION

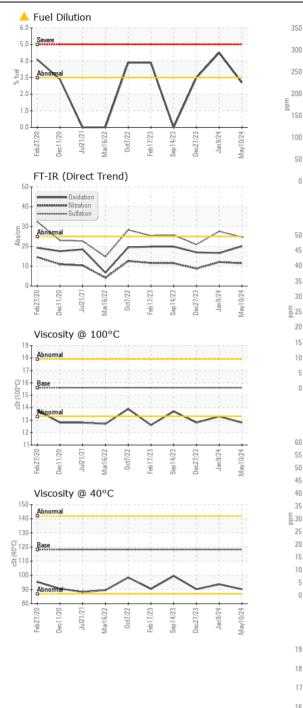
Light fuel dilution occurring. No other contaminants were detected in the oil.

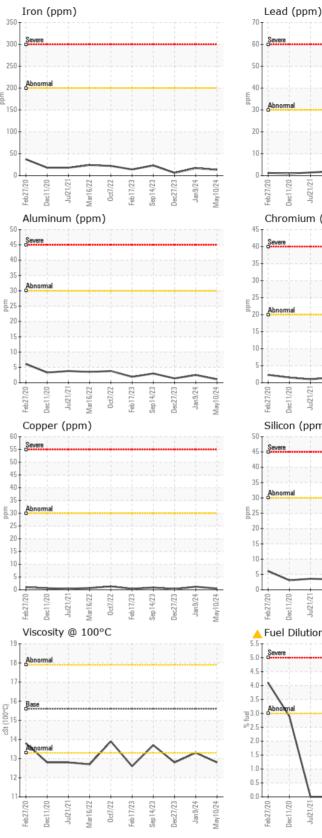
FLUID CONDITION

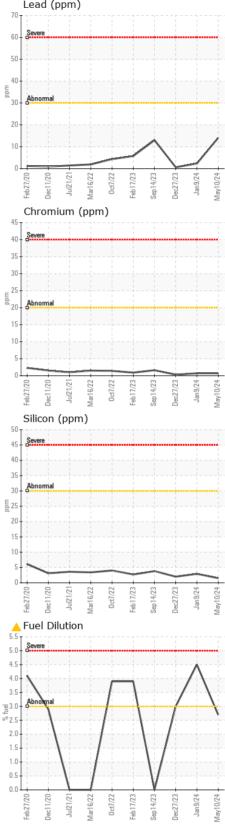
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2	
Sample Number		Client Info		PC0083573	PC0078529	PC0078524	
Sample Date		Client Info		10 May 2024	09 Jan 2024	27 Dec 2023	
Machine Age	kms	Client Info		25613	89052	18358	
Oil Age	kms	Client Info		8000	8000	8000	
Filter Age	kms	Client Info		8000	8000	8000	
Oil Changed		Client Info		Changed	Changed	Changed	
Filter Changed		Client Info		Changed	Changed	Changed	
Sample Status				MARGINAL	ABNORMAL	ABNORMAL	
Iron	ppm	ASTM D5185(m)	>200	13	17	6	
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185(m)	>2	0	<1	0	
Titanium	ppm	ASTM D5185(m)	>2	0	0	0	
Silver	ppm	ASTM D5185(m)	>2	0	0	0	
Aluminum	ppm	ASTM D5185(m)	>30	1	2	1	
Lead	ppm	ASTM D5185(m)	>30	14	2	<1	
Copper	ppm	ASTM D5185(m)	>30	<1	1	<1	
Tin	ppm	ASTM D5185(m)	>15	0	<1	0	
Vanadium	ppm	ASTM D5185(m)		0	0	0	
Silicon	ppm	ASTM D5185(m)	>30	2	3	2	
Potassium	ppm	ASTM D5185(m)	>20	0	5	<1	
Fuel	%	ASTM D7593*	>3.0	2.7	4.5	▲ 3	
Water	,	WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
Soot %	%	ASTM D7844*	>3	1.4	4.3	0.5	
Nitration	Abs/cm	ASTM D7624*	>20	11.5	12.1	8.8	
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.7	27.6	20.9	
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG	
Castinues				•	0		
Sodium	ppm	ASTM D5185(m) ASTM D5185(m)	0	3 17	2	2 17	
Boron Barium	ppm	(/	0	0	4	0	
Molybdenum	ppm ppm	ASTM D5185(m) ASTM D5185(m)	60	61	57	56	
Manganese	ppm	ASTM D5185(m)	0	0	0	0	
Magnesium	ppm	ASTM D5185(m)	1010	900	935	837	
Calcium	ppm	ASTM D5185(m)	1070	1197	1105	1218	
Phosphorus	ppm	ASTM D5185(m)	1150	997	1019	1020	
Zinc	ppm	ASTM D5185(m)	1270	1179	1176	1157	
Sulfur	ppm	ASTM D5185(m)	2060	2623	2737	2876	
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.1	16.6	17.0	
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	90.2	93.7	90.2	
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	12.8	13.3	▲ 12.8	
Viscosity Index (VI)	Scale	ASTM D2270*	139	139	141	139	
	00010		nto ot/l -				

Contact/Location: Roger Roman - BEA339WIN







Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : PC0083573 Received : 28 May 2024 Lab Number : 02637912 Tested : 29 May 2024 ISO 17025:2017 Accredited : 29 May 2024 - Wes Davis Unique Number : 5787074 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: KV40, PercentFuel, VI) 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.

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