

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

INTERNATIONAL 829108

Diesel Engine Fluid PETRO CANADA DURON HP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA DURON HP 15W40, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade on your next sample.

Wear

All component wear rates are normal.

Contamination

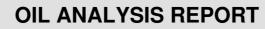
Fuel content negligible. Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Fluid Condition

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122261	GFL0071117	
Sample Date		Client Info		31 May 2024	07 Feb 2023	
Machine Age	hrs	Client Info		8520	68800	
Oil Age	hrs	Client Info		502	0	
Oil Changed		Client Info		Changed	N/A	
Sample Status				ABNORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	9	25	
Chromium	ppm	ASTM D5185(m)	>20	0	<1	
Nickel		ASTM D5185(m)	>4	<1	<1	
Titanium	ppm ppm	ASTM D5185(m)	~	0	<1	
Silver	ppm	ASTM D5185(m)	>3	0	0	
Aluminum	ppm	ASTM D5185(m)	>20	4	23	
Lead	ppm	ASTM D5185(m)	>40	4	0	
Copper	ppm	ASTM D5185(m)	>330	17	<1	
Tin	ppm	ASTM D5185(m)	>15	0	0	
Antimony	ppm	ASTM D5185(m)	>15	0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES	ppm	method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185(m)	0	157	3	
Barium	ppm	ASTM D5185(m)	0	0	0	
Molybdenum	ppm	ASTM D5185(m)	60	10	61	
Manganese	ppm	ASTM D5185(m)	0	<1	<1	
Magnesium	ppm	ASTM D5185(m)	1010	87	981	
Calcium	ppm	ASTM D5185(m)	1070	1990	1114	
Phosphorus	ppm ppm	ASTM D5185(m)	1150	935	1125	
Zinc	ppm	ASTM D5185(m)	1270	1067	1231	
Sulfur	ppm	ASTM D5185(m)	2060	2829	2653	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	5	
Sodium	ppm	ASTM D5185(m)	200	2	2	
Potassium	ppm	ASTM D5185(m)	>20	9	30	
Fuel	%	ASTM D3103(III) ASTM D7593*	>2.0	0.1	<1.0	
INFRA-RED		method	limit/base	current	history1	history2
	0/					
Soot %	%	ASTM D7844*	>3	0	0	
Nitration	Abs/cm	ASTM D7624*	>20	5.4	9.7	
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.9	20.7	







7 Superior Crescent Lab Number : 02640177 Tested : 07 Jun 2024 Charlottetown, PE ISO 17025:2017 Accredited Unique Number : 5789339 Diagnosed : 10 Jun 2024 - Kevin Marson CA C1A 7N5 Laboratory Test Package : MOB 1 (Additional Tests: BottomAnalysis, FILTERPATCH, FuelDilution, PercentFuel, Visuahtact: Vicki Metcalfe To discuss this sample report, contact Customer Service at 1-800-268-2131. vmetcalfe@gflenv.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (782)377-5918 Validity of results and interpretation are based on the sample and information as supplied. F: (506)453-9490

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