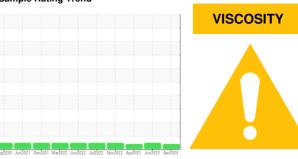


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id
427010
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 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.

Wear

All component wear rates are normal.

Contamination

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

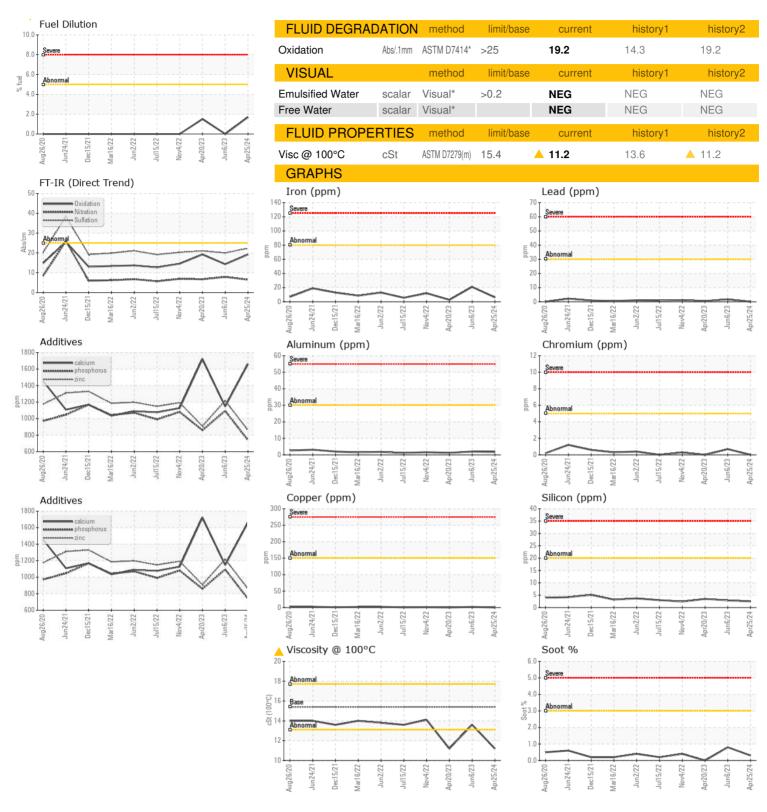
Fluid Condition

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 INFOR	RMATION	method	limit/base	current	history1	history2
	IIVIATION		IIIIII/Dase			
Sample Number		Client Info		GFL0113239	GFL0082573	GFL0078523
Sample Date		Client Info		25 Apr 2024	06 Jun 2023	20 Apr 2023
Machine Age	kms	Client Info		0	815101	30755
Oil Age	kms	Client Info		32712	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>80	6	21	3
Chromium	ppm	ASTM D5185(m)	>5	0	<1	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	2	2	1
Lead	ppm	ASTM D5185(m)	>30	0	2	<1
Copper	ppm	ASTM D5185(m)	>150	<1	2	<1
Tin	ppm	ASTM D5185(m)	>5	0	<1	0
Antimony	ppm	ASTM D5185(m)		0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	43	4	50
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	39	60	42
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	473	964	534
Calcium	ppm	ASTM D5185(m)	1070	1661	1147	1722
Phosphorus	ppm	ASTM D5185(m)	1150	739	1093	859
Zinc	ppm	ASTM D5185(m)	1270	859	1217	908
Sulfur	ppm	ASTM D5185(m)	2060	2057	2507	2406
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	2	3	4
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	<1	1	<1
Fuel	%	ASTM D7593*	>5	1.7	<1.0	1.5
INFRA-RED		method	limit/base	current	history1	history2
IINFNA-NED						
	%	ASTM D7844*	>3	0.3	0.8	0
Soot % Nitration	% Abs/cm	ASTM D7844* ASTM D7624*	>3 >20	0.3 6.5	0.8 7.9	0 6.7



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No. Lab Number : 02631515

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : GFL0113239

Unique Number : 5772668

Received : 26 Apr 2024 **Tested** Diagnosed

: 29 Apr 2024 Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

: 29 Apr 2024 - Kevin Marson

GFL Environmental - 246 - Windsor 2700 Deziel Dr Windsor, ON **CA N8W 5H8** Contact: Dave Varga dvarga@gflenv.com T: (519)944-8009

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.