

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY





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 SHP 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. 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		GFL0055376	GFL0078515	GFL0061941
Sample Date		Client Info		06 Oct 2023	28 Apr 2023	21 Oct 2022
	nrs	Client Info		06 OCI 2023	28 Apr 2023 4297	3847
5	nrs	Client Info		4754	4297	292
Oil Changed	115	Client Info		4754 N/A	0 N/A	Changed
Ű		Client Inio			NORMAL	NORMAL
Sample Status				-	-	-
CONTAMINATIC)N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron #	opm	ASTM D5185(m)	>120	12	11	9
Chromium p	opm	ASTM D5185(m)	>20	0	0	0
Nickel p	opm	ASTM D5185(m)	>5	0	<1	0
Titanium p	opm	ASTM D5185(m)	>2	0	<1	<1
Silver	opm	ASTM D5185(m)	>2	<1	0	0
Aluminum p	opm	ASTM D5185(m)	>20	2	2	2
Lead p	opm	ASTM D5185(m)	>40	<1	<1	<1
Copper p	opm	ASTM D5185(m)	>330	2	4	4
	opm	ASTM D5185(m)	>15	<1	<1	<1
Antimony A	opm	ASTM D5185(m)		0	<1	0
Vanadium	opm	ASTM D5185(m)		0	0	0
Beryllium	opm	ASTM D5185(m)		0	0	0
Cadmium	opm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	opm	ASTM D5185(m)	0	20	2	6
Barium	opm	ASTM D5185(m)	0	<1	0	0
	opm	ASTM D5185(m)	60	45	61	60
	opm	ASTM D5185(m)	0	0	<1	<1
Magnesium	opm	ASTM D5185(m)	1010	570	987	960
	opm	ASTM D5185(m)	1070	1705	1145	1138
Phosphorus p	opm	ASTM D5185(m)	1150	774	1092	1074
	opm	ASTM D5185(m)	1270	948	1203	1191
	opm	ASTM D5185(m)	2060	2137	2560	2629
	opm	ASTM D5185(m)		<1	<1	<1
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	opm	ASTM D5185(m)	>25	6	4	4
Sodium	opm	ASTM D5185(m)		3	3	2
Potassium	opm	ASTM D5185(m)	>20	2	4	2
Fuel	%	ASTM D7593*	>3.0	0.5	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.2	0.2	0
	Abs/cm		>20	8.8	7.9	7.1
	Abs/.1mm	ASTM D7415*	>30	22.8	19.7	19.5
FLUID DEGRADA		method	limit/base	current	history1	history2
		ASTM D7414*	>25	20.9	15.4	14.5
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