

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



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

Fuel content negligible. There is no indication of

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

All component wear rates are normal.

any contamination in the oil.

acceptable for the time in service.

DIAGNOSIS

monitor. Wear

Contamination

Fluid Condition

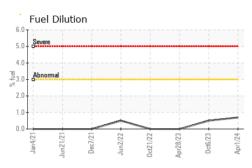
Component Diesel Engine Fluid

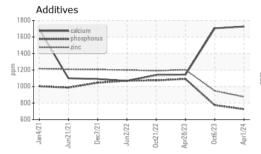
PETRO CANADA DURON SHP 15W40 (--- GAL)

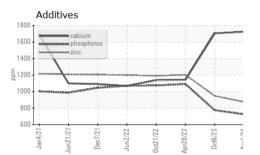
N SHP 15W40 (- GAL)	Jan2021 J	lun2021 Dec2021 Jun20	22 Oct2022 Apr2023 Oct2023	Apr2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102860	GFL0055376	GFL0078515
Sample Date		Client Info		01 Apr 2024	06 Oct 2023	28 Apr 2023
Machine Age	hrs	Client Info		0	0	4297
Oil Age	hrs	Client Info		5120	4754	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	13	12	11
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	3	2	4
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	<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	29	20	2
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	42	45	61
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	522	570	987
Calcium	ppm	ASTM D5185(m)	1070	1726	1705	1145
Phosphorus	ppm	ASTM D5185(m)	1150	726	774	1092
Zinc	ppm	ASTM D5185(m)	1270	875	948	1203
Sulfur	ppm	ASTM D5185(m)	2060	2016	2137	2560
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	6	4
Sodium	ppm	ASTM D5185(m)		2	3	3
Potassium	ppm	ASTM D5185(m)	>20	3	2	4
Fuel	%	ASTM D7593*	>3.0	0.7	0.5	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.2	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	8.5	8.8	7.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.9	22.8	19.7

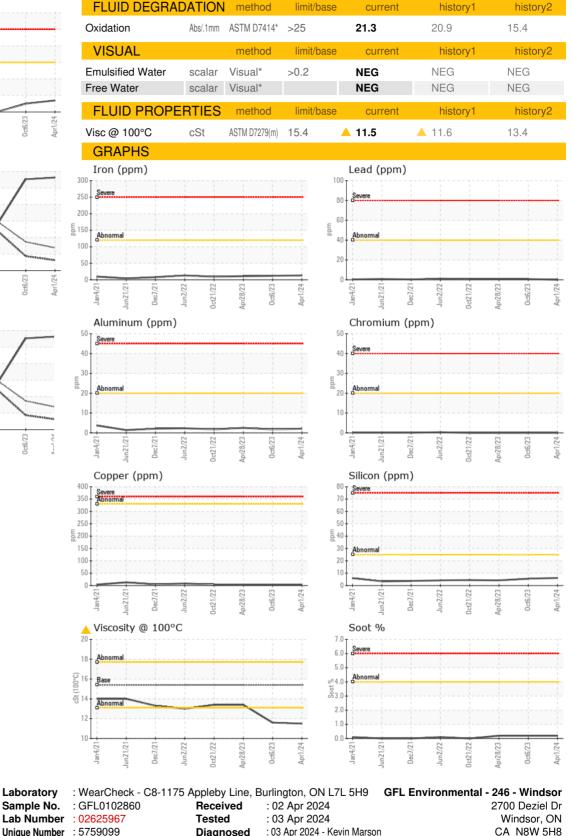


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Laboratory Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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CALA

ISO 17025:2017 Accredited

Laboratory

Sample No.