

OIL ANALYSIS REPORT

Sample Rating Trend



427026-4039 Component

Diesel Engine Fluid

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

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0085533	GFL0053262	GFL005330
We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		18 Dec 2023	27 Jul 2022	06 Jun 2022
	Machine Age	hrs	Client Info		28588	27415	27322
	Oil Age	hrs	Client Info		0	600	600
	Oil Changed		Client Info		Changed	Changed	Changed
ar component wear rates are normal.	Sample Status				ABNORMAL	NORMAL	NORMAL
ontamination	CONTAMINAT	ION	method	limit/base	current	history1	history2
here is an abnormal amount of solids and carbon resent in the oil.	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
Fluid Condition The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the bit is acceptable for the time in service.	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	23	0	18
	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	<1
	Titanium	ppm	ASTM D5185m	>2	0	<1	3
	Silver	ppm	ASTM D5185m		0	2	0
	Aluminum	ppm	ASTM D5185m	>20	2	<1	<1
	Lead	ppm	ASTM D5185m		1	1	2
	Copper	ppm	ASTM D5185m	>330	3	2	3
	Tin	ppm	ASTM D5185m		0	<1	<1
	Antimony	ppm	ASTM D5185m				
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	<1	0
	ADDITIVES		method	limit/base	current	history1	history
	Boron	ppm	ASTM D5185m	0	2	6	7
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	50	56	52
	Manganese	ppm	ASTM D5185m	0	0	0	<1
	Magnesium	ppm	ASTM D5185m	1010	842	861	817
	Calcium	ppm	ASTM D5185m	1070	997	1092	1053
	Phosphorus	ppm	ASTM D5185m	1150	902	998	902
	Zinc	ppm	ASTM D5185m	1270	1086	1206	1160
	Sulfur	ppm	ASTM D5185m	2060	2920	3282	2789
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	3	2	2
	Sodium	ppm	ASTM D5185m		0	<1	1
	Potassium	ppm	ASTM D5185m	>20	2	<1	0
	Fuel	%	ASTM D3524	>3.0	<1.0	<1.0	<1.0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	4 .1	0.6	3.6
	Nitration	Abs/cm	*ASTM D7624	>20	10.6	5.7	9.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.4	19.0	24.6
	FLUID DEGRAI		method	limit/base	current	history1	history2
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	Oxidation		*ASTM D7414		14.9	13.1	14.4

Base Number (BN) mg KOH/g ASTM D2896 9.8

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Submitted By: ? MOB2FLEET

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