

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 475M Component

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092752	GFL0080758	GFL0080803
Sample Date		Client Info		31 Oct 2023	28 Aug 2023	08 Jun 2023
Machine Age	hrs	Client Info		39778	39778	0
Oil Age	hrs	Client Info		39778	39778	0
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				NORMAL	SEVERE	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	9	24	2
Chromium	ppm	ASTM D5185m	>20	<1	1	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	1 1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	<1
Lead	ppm	ASTM D5185m	>40	0	2	0
Copper	ppm	ASTM D5185m	>330	<1	5	2
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	<1	185
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	50	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	964	796	755
Calcium	ppm	ASTM D5185m	1070	1102	890	1838
Phosphorus	ppm	ASTM D5185m	1150	1124	838	813
Zinc	ppm	ASTM D5185m	1270	1292	1032	997
Sulfur	ppm	ASTM D5185m	2060	2927	2941	4079
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	3
Sodium	ppm	ASTM D5185m		1	2	1
Potassium	ppm	ASTM D5185m	>20	2	6	3
Fuel	%	ASTM D3524	>3.0	0.6	21.1	1.1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	3.6	0.7
Nitration	Abs/cm	*ASTM D7624	>20	6.8	10.6	5.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	23.1	19.0
FLUID DEGRAD	DATION		limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	13.5	14.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	6.0	8.5



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