

OIL ANALYSIS REPORT

Sample Rating Trend





Component Natural Gas Engine Fluid

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

DIAGNOSIS Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

Fluid Condition

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

N SHP 15W40 (GAL)			Dec2023		
SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0074623		
Sample Date		Client Info		20 Dec 2023		
Machine Age	hrs	Client Info		1173		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	59		
Chromium	ppm	ASTM D5185m	>5	2		
Nickel	ppm	ASTM D5185m	>4	1		
Titanium	ppm	ASTM D5185m	>5	0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>25	26		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>150	15		
Tin	ppm	ASTM D5185m	>4	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2		
Barium	ppm	ASTM D5185m	0	2		
Molybdenum	ppm	ASTM D5185m	60	54		
Manganese	ppm	ASTM D5185m	0	12		
Magnesium	ppm	ASTM D5185m	1010	833		
Calcium	ppm	ASTM D5185m	1070	1257		
Phosphorus	ppm	ASTM D5185m	1150	710		
Zinc	ppm	ASTM D5185m	1270	954		
Sulfur	ppm	ASTM D5185m		2100		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	25		
Sodium	ppm	ASTM D5185m		6		
Potassium	ppm	ASTM D5185m	>20	75		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0		
Nitration	Abs/cm	*ASTM D7624	>20	12.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.3		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.9		
Base Number (BN)			0.0	0.0		
Dase Mulliber (DN)	mg KOH/g	ASTM D2896	9.8	2.9		



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