

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 714059 Component

Diesel Engine

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

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

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.

N SHP 15W40 (- GAL)		Dec2023	Mar2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116957	GFL0107060	
Sample Date		Client Info		21 Mar 2024	22 Dec 2023	
Machine Age	hrs	Client Info		1773	1181	
Oil Age	hrs	Client Info		600	600	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	25	23	
Chromium	ppm	ASTM D5185m	>5	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>30	2	2	
Lead	ppm	ASTM D5185m	>30	0	<1	
Copper	ppm	ASTM D5185m	>150	<1	2	
Tin	ppm	ASTM D5185m	>5	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	5	
Barium	ppm	ASTM D5185m	0	0	<1	
Molybdenum	ppm	ASTM D5185m	60	56	61	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	948	901	
Calcium	ppm	ASTM D5185m	1070	1042	1084	
Phosphorus	ppm	ASTM D5185m	1150	1012	1032	
Zinc	ppm	ASTM D5185m	1270	1275	1182	
Sulfur	ppm	ASTM D5185m	2060	3365	2936	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	4	
Sodium	ppm	ASTM D5185m		3	4	
Potassium	ppm	ASTM D5185m	>20	<1	0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	20.2	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	17.0	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	8.3	



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Dec22/23

Abnorma

OIL ANALYSIS REPORT

scalar

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*Visual

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NONE

VISUAL

White Metal

Yellow Metal

Precipitate

Silt



