

OIL ANALYSIS REPORT

Sample Rating Trend

Machine Id

INTERNATIONAL 125056-SWV6508

Diesel Engine

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

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

🛑 Wear

All component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

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.

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SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111323	GFL0077247	
Sample Date		Client Info		29 May 2024	02 Jun 2023	
Machine Age	hrs	Client Info		20817	19371	
Oil Age	hrs	Client Info		1446	572	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	34	88	
Chromium	ppm	ASTM D5185m	>20	2	3	
Nickel	ppm	ASTM D5185m	>4	0	2	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	<mark> </mark> 12	13	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	100	7	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	84	101	
Barium	ppm	ASTM D5185m	0	29	0	
Molybdenum	ppm	ASTM D5185m	60	124	171	
Manganese	ppm	ASTM D5185m	0	4	1	
Magnesium	ppm	ASTM D5185m	1010	669	927	
Calcium	ppm	ASTM D5185m	1070	1248	1771	
Phosphorus	ppm	ASTM D5185m	1150	765	1031	
Zinc	ppm	ASTM D5185m	1270	831	1262	
Sulfur	ppm	ASTM D5185m	2060	3683	3745	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<mark>/</mark> 37	22	
Sodium	ppm	ASTM D5185m		6	5	
Potassium	ppm	ASTM D5185m	>20	23	3	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	10.0	15.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	27.8	
FLUID DEGRAD		method	limit/base	current	history1	history2
0.11.1	Abo/1mm		> 25	15 7	00 5	
Oxidation	ADS/.IIIIIII	ASTIVI D7414	>20	15.7	26.5	

DIRT



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