

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

Machine Id 221094

Component Genset Fluid PETRO CANADA DURON SHP 10W30 (--- LTR)

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

🔺 Wear

Iron and tin ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Slide bearing wear is indicated.

Contamination

Light fuel dilution occurring. There is a moderate concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component. No other contaminants were detected in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0085919		
Sample Date		Client Info		27 Jun 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS	S	method	limit/base	current	history1	history2
PQ		ASTM D8184*		35		
Iron	ppm	ASTM D5185(m)	>25	<u> </u>		
Chromium	ppm	ASTM D5185(m)	>5	5		
Nickel	ppm	ASTM D5185(m)	>5	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>5	<1		
Aluminum	ppm	ASTM D5185(m)	>10	17		
Lead	ppm	ASTM D5185(m)	>10	2		
Copper	ppm	ASTM D5185(m)	>20	22		
Tin	ppm	ASTM D5185(m)	>5	<u> </u>		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		<1		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	156		
Barium	ppm	ASTM D5185(m)	0	3		
Molybdenum	ppm	ASTM D5185(m)	50	157		
Manganese	ppm	ASTM D5185(m)	0	2		
Magnesium	ppm	ASTM D5185(m)	950	170		
Calcium	ppm	ASTM D5185(m)	1050	2296		
Phosphorus	ppm	ASTM D5185(m)	995	917		
Zinc	ppm	ASTM D5185(m)	1180	1003		
Sulfur	ppm	ASTM D5185(m)	2600	4180		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	/ 70		
Sodium	ppm	ASTM D5185(m)		4		
Potassium	ppm	ASTM D5185(m)	>20	2		
Fuel	%	ASTM D7593*	>4.0	1.7		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0.9		
Nitration	Abs/cm	ASTM D7624*	>20	10.2		
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.9		



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