

OIL ANALYSIS REPORT

{UNASSIGNED} 834092

Component **Natural Gas Engine** PETRO CANADA DURON SHP 15W40 (8 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

Elevated aluminum (Al) 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 suitable for further service.

AL)			0ct2023	Dec2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101242	GFL0088730	
Sample Date		Client Info		04 Dec 2023	30 Oct 2023	
Machine Age	hrs	Client Info		382	147	
Oil Age	hrs	Client Info		382	147	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	49	35	
Chromium	ppm	ASTM D5185m	>4	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>9	29	17	
Lead	ppm	ASTM D5185m	>30	0	2	
Copper	ppm	ASTM D5185m	>35	18	16	
Tin	ppm	ASTM D5185m	>4	<1	1	
Vanadium	ppm	ASTM D5185m		0	<1	
	ppm	ASTM D5185m	1	U	U	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	19	36	
Barium	ppm	ASTM D5185m	0	5	2	
Molybdenum	ppm	ASTM D5185m	60	54	50	
Manganese	ppm	ASTM D5185m	0	13	13	
Magnesium	ppm	ASTM D5185m	1010	682	708	
Calcium	ppm	ASTM D5185m	1070	1111	1046	
Phosphorus	ppm	ASTM D5185m	1150	598	715	
Zinc	ppm	ASTM D5185m	1270	814	814	
	ppm	ASTM D5185m	2060	25/2	2080	
CONTAMINAN	15	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3/	37	
Botagojum	ppm	ASTM D5185M	> 20	5	8 70	
	ppm	AS IM D5185M	>20	120	/9	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	
Nitration	Abs/cm	*ASTM D7624	>20	11.3	9.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	20.5	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.1	18.2	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	4.4	7.0	

Sample Rating Trend

NORMAL



OIL ANALYSIS REPORT





Certificate L2367

Submitted By: JOSHUA TINKER