

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 228292

Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (----

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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. There is no indication of any contamination in the oil.

Fluid Condition

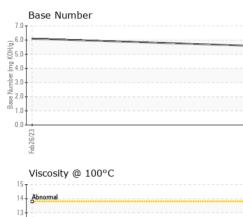
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

TS)			Feb 2023	Nov2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0097356	PCA0083894	
Sample Date		Client Info		25 Nov 2023	26 Feb 2023	
Machine Age	mls	Client Info		109102	61301	
Oil Age	mls	Client Info		47801	61301	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATI	ON	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 METALS	6	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	42	59	
Chromium	ppm	ASTM D5185m	>20	3	3	
Nickel	ppm	ASTM D5185m	>4	<1	1	
Titanium	ppm	ASTM D5185m		1	2	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	38	48	
Lead	ppm	ASTM D5185m	>40	2	3	
Copper	ppm	ASTM D5185m	>330	230	346	
Tin	ppm	ASTM D5185m	>15	4	7	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	3	19	
Barium	ppm	ASTM D5185m	0	0	0	
Volybdenum	ppm	ASTM D5185m	50	60	41	
Vanganese	ppm	ASTM D5185m	0	2	5	
Vagnesium	ppm	ASTM D5185m	950	989	514	
Calcium	ppm	ASTM D5185m	1050	1359	1745	
Phosphorus	ppm	ASTM D5185m	995	1043	695	
Zinc	ppm	ASTM D5185m	1180	1246	924	
Sulfur	ppm	ASTM D5185m	2600	2354	1828	
CONTAMINAN	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	9	
Sodium	ppm	ASTM D5185m		3	7	
Potassium	ppm	ASTM D5185m	>20	76	109	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.8	
Nitration	Abs/cm	*ASTM D7624	>20	10.2	12.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	24.2	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.1	27.4	

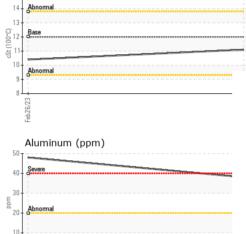


0 Feb26/23

OIL ANALYSIS REPORT



Inv/75/73





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

Laboratory

Sample No.

Lab Number

Contact/Location: RON ROBERTS - MILLAN