

OIL ANALYSIS REPORT

Sample Rating Trend



709 Component Diesel Engine Fluid

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

DIAGNOSIS

Machine Id

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. We recommend an early resample to monitor this condition.

🔺 Wear

Cylinder, crank, or cam shaft wear is indicated.

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 oil is no longer serviceable due to the presence of contaminants.

AL)			Jul2023	Jan2024		
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0107194	PCA0066407	
Sample Date		Client Info		24 Jan 2024	11 Jul 2023	
Machine Age	hrs	Client Info		6024	5294	
Oil Age	hrs	Client Info		5293	741	
Oil Changed	1110	Client Info		Changed	Changed	
Sample Status				SEVERE	NORMAL	
CONTAMINA	ΓΙΟΝ	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	>100	1 08	101	
Chromium	ppm	ASTM D5185m	>20	6	3	
Nickel	ppm	ASTM D5185m	>4	0	<1	
Titanium	ppm	ASTM D5185m		1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	▲ 29	10	
Lead	ppm	ASTM D5185m	>40	13	12	
Copper	ppm	ASTM D5185m	>330	8	5	
Tin	ppm	ASTM D5185m		3	2	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	11	
Barium	ppm	ASTM D5185m		1	0	
Molybdenum	ppm	ASTM D5185m		64	67	
Manganese	ppm	ASTM D5185m		2	1	
Magnesium	ppm	ASTM D5185m		1104	1093	
Calcium	ppm	ASTM D5185m		1374	1379	
Phosphorus	ppm	ASTM D5185m		1141	1116	
Zinc	ppm	ASTM D5185m		1449	1417	
Sulfur	ppm	ASTM D5185m		3127	3553	
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	97	20	
Sodium	ppm	ASTM D5185m		8	4	
Potassium	ppm	ASTM D5185m	>20	24	1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.7	
Nitration	Abs/cm	*ASTM D7624		12.5	12.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.9	26.2	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.7	23.5	
Base Number (BN)	mg KOH/g	ASTM D2896		5.8	6.3	
	ing tony	NOTHER DE000	0.0	0.0	0.0	



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