

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 727098

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. 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. 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 acceptable for the time in service.

SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0078303	GFL0078307	GFL0078305
Sample Date		Client Info		13 May 2024	02 Mar 2024	21 Feb 2024
Machine Age	hrs	Client Info		14342	14147	14119
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINATI		mothod	limit/bass	ourropt	biotonut	biotory?
CONTAMINATI				current	TIISLOTY I	Thistoryz
Fuel		WC Wethod	C<	<1.0	<1.0	<1.0
Vvater		WC Method	>0.2	NEG	NEG	NEG
GIYCOI		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	32	57	5 5
Chromium	ppm	ASTM D5185m	>20	2	4	4
Nickel	ppm	ASTM D5185m	>4	<1	<1	1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	32	19	<u> </u>
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	2	2	3
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7	0	2
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	94	55	58
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	1345	871	844
Calcium	ppm	ASTM D5185m	1070	1513	958	969
Phosphorus	ppm	ASTM D5185m	1150	1385	947	949
Zinc	ppm	ASTM D5185m	1270	1798	1144	1123
Sulfur	ppm	ASTM D5185m	2060	4660	2530	2877
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	6	9
Sodium	ppm	ASTM D5185m		10	10	14
Potassium	ppm	ASTM D5185m	>20	68	33	35
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.6	0.5
Nitration	Abs/cm	*ASTM D7624	>20	6.3	9.3	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	20.8	20.7
FLUID DEGRAD	ATION	method	limit/base	current_	history1	history2
Ovidation	Abo/1mm	*AQTM D7414	. 05	14.2	10 F	17.0
Base Number (RN)	MUS/. IIIIII	ASTM D2806	>20 0.8	14.3	7.6	7.0
Dase NUMBER (DIN)	nig KOH/g	NO 1 WI D2090	5.0	0.0	1.0	1.3



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