

OIL ANALYSIS REPORT

Sample Rating Trend



Area [413171] Machine Id 413075

Component Diesel Engine

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: 413171)

Wear

Metal levels are typical for a new component breaking in.

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

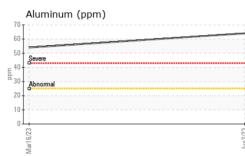
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

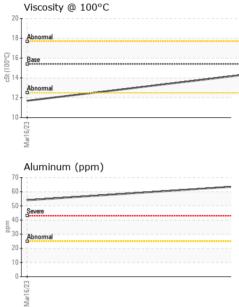
GAL)			Mar2023	Jun2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0083501	GFL0065211	
Sample Date		Client Info		02 Jun 2023	16 Mar 2023	
Machine Age	hrs	Client Info		2204	594	
Oil Age	hrs	Client Info		2204	594	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ATTENTION	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	0.4	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	21	44	
Chromium	ppm	ASTM D5185m	>4	<1	1	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>2	<1	0	
Aluminum	ppm	ASTM D5185m	>25	64	54	
Lead	ppm	ASTM D5185m	>45	<1	<1	
Copper	ppm	ASTM D5185m	>85	16	21	
Tin	ppm	ASTM D5185m	>4	<1	1	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	28	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	57	24	
Manganese	ppm	ASTM D5185m	0	<1	3	
Magnesium	ppm	ASTM D5185m	1010	1041	936	
Calcium	ppm	ASTM D5185m	1070	1177	1601	
Phosphorus	ppm	ASTM D5185m	1150	1063	902	
Zinc	ppm	ASTM D5185m	1270	1335	1145	
Sulfur	ppm	ASTM D5185m	2060	3819	3859	
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4	11	
Sodium	ppm	ASTM D5185m		2	4	
Potassium	ppm	ASTM D5185m	>20	123	129	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	8.9	10.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	21.9	
FLUID DEGRA	DATION		limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	16.5	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	7.3	

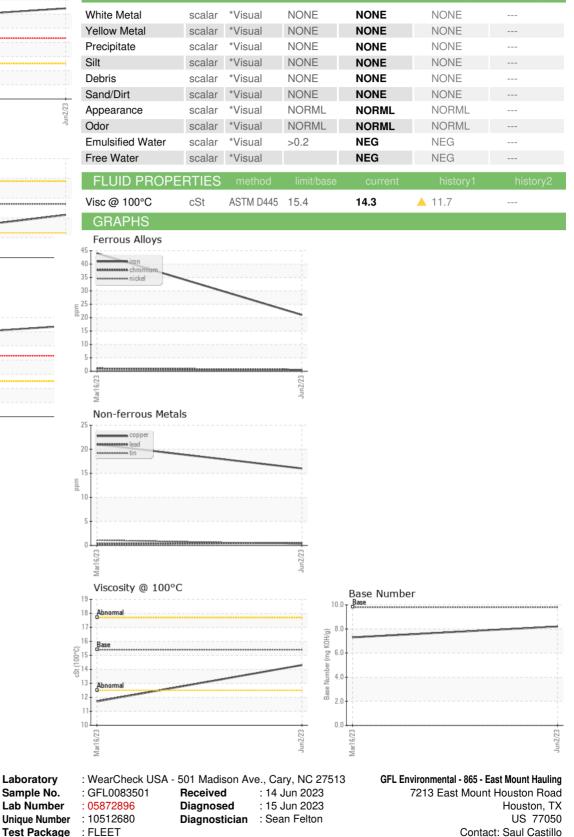


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VISUAL







Certificate 12367 Test Package : FLEET To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Submitted By: TECHNICIAN ACCOUNT

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