

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 920081-205321

Component Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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.

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SAMPLE INFOR		method	Iimit/base	Dec2022 Apr2023 May2023	history1	history2	
			IIIIII/Dase				
Sample Number Sample Date		Client Info Client Info		GFL0083691	GFL0087055 31 Jul 2023	GFL0080014	
Machine Age	hrs	Client Info		29 Sep 2023		18 May 2023 0	
Dil Age	hrs	Client Info		0 0	0	0	
Dil Changed	1115	Client Info		0 Not Changd	Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	16	7	15	
Chromium	ppm	ASTM D5185m	>20	<1	<1	1	
Nickel	ppm	ASTM D5185m	>4	0	0	<1	
Titanium	ppm	ASTM D5185m		0	0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	<1	
Aluminum	ppm	ASTM D5185m	>20	2	2	2	
_ead	ppm	ASTM D5185m	>40	0	0	2	
Copper	ppm	ASTM D5185m	>330	<1	0	<1	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	2	2	
Barium	ppm	ASTM D5185m	0	0	0	0	
Volybdenum	ppm	ASTM D5185m	60	65	59	56	
Manganese	ppm	ASTM D5185m	0	<1	<1	1	
Magnesium	ppm	ASTM D5185m	1010	1048	930	964	
Calcium	ppm	ASTM D5185m	1070	1220	1085	1351	
Phosphorus	ppm	ASTM D5185m	1150	1085	1030	1028	
Zinc	ppm	ASTM D5185m	1270	1363	1280	1338	
Sulfur	ppm	ASTM D5185m	2060	3168	3835	3860	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	3	3	4	
Sodium	ppm	ASTM D5185m		5	3	4	
Potassium	ppm	ASTM D5185m	>20	3	2	4	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.7	0.6	0.9	
Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.3	7.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	21.5	20.1	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	16.7	14.3	
Base Number (BN)	ma KOH/a	ASTM D2896	9.8	7.6	7.8	8.4	

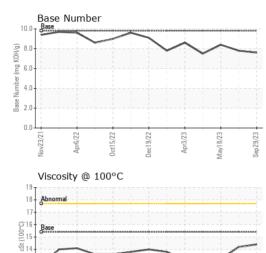


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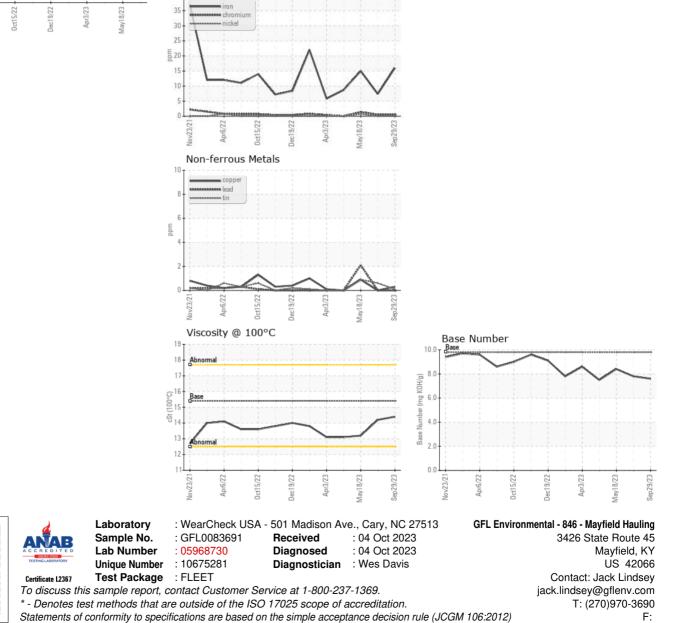
Vov23/21

Anr6/22

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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.2	13.2
GRAPHS						
Ferrous Alloys						



Contact/Location: Jack Lindsey - GFL846