

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 828037-1048

Component Diesel Engine

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

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.

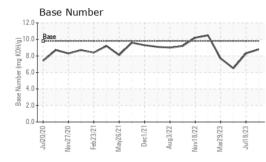
Fluid Condition

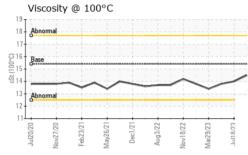
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

R)			20 Feb2021 May2021 De	ez2021 Aug2022 Nov2022 Mar2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0058039	GFL0070904	GFL0082531
Sample Date		Client Info		14 Sep 2023	18 Jul 2023	08 May 2023
Machine Age	hrs	Client Info		11712	11433	11159
Dil Age	hrs	Client Info		553	174	479
Dil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
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
ron	ppm	ASTM D5185m	>110	4	7	19
Chromium	ppm	ASTM D5185m	>4	<1	<1	2
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Fitanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	<1	0	0
₋ead	ppm	ASTM D5185m	>45	2	<1	5
Copper	ppm	ASTM D5185m	>85	3	17	A 84
Fin	ppm	ASTM D5185m	>4	1	0	<1
/anadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	4	6
Barium	ppm	ASTM D5185m	0	44	0	0
Nolybdenum	ppm	ASTM D5185m	60	56	67	64
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	885	1003	1001
Calcium	ppm	ASTM D5185m	1070	985	1241	1129
Phosphorus	ppm	ASTM D5185m	1150	946	1077	1061
Zinc	ppm	ASTM D5185m	1270	1162	1294	1343
Sulfur	ppm	ASTM D5185m	2060	3284	3664	3371
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4	4	7
Sodium	ppm	ASTM D5185m		3	6	6
Potassium	ppm	ASTM D5185m	>20	4	1	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	5.2	7.7	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	19.4	19.8
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	14.7	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	0.0	8.8	8.3	6.5



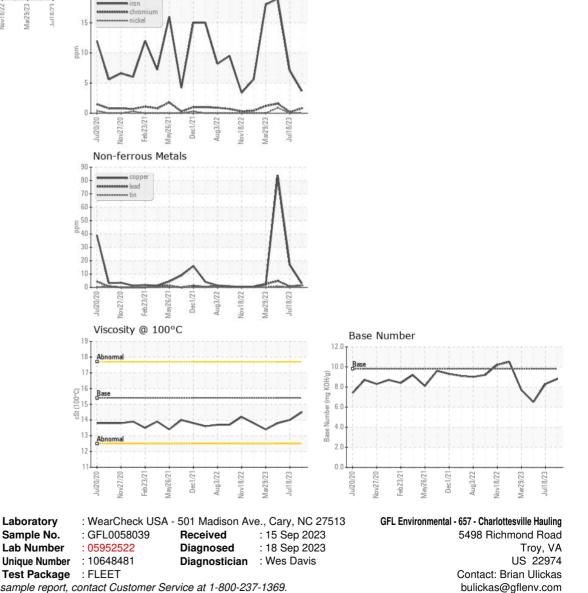
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.5	14.0	13.8
GRAPHS						
Ferrous Alloys						



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)

Certificate L2367

Submitted By: TECHNICIAN ACCOUNT

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