

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Component

Diesel Engine Fluic

PETRO CANADA DURON SHP 15W40 (40 GA

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

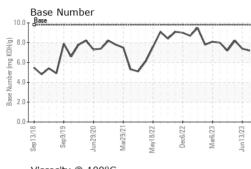
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

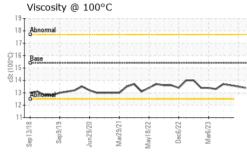
AL)		p2018 Sep2	19 Jun2020 Mar2021	1 May2022 Dec2022 Mar2023	Jun2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	hrs hrs	Client Info Client Info Client Info Client Info		GFL0088413 29 Aug 2023 13332 12849 N/A NORMAL	GFL0058540 13 Jun 2023 12849 11959 Changed NORMAL	GFL0070065 22 May 2023 12688 11959 Not Changd NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel Glycol		WC Method WC Method	>3.0	<1.0 NEG	<1.0 NEG	<1.0 NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron Chromium Nickel	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>165 >5 >4	15 <1 0	20 <1 0	12 0 0
Titanium Silver	ppm ppm	ASTM D5185m ASTM D5185m	>2 >2	0	0	0
Aluminum Lead Copper	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>20 >150 >90	<1 0 3	<1 0 2	2 0 <1
Tin Vanadium	ppm ppm	ASTM D5185m	>5	0	0 <1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1 0	history2 0
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m	0 60	0 58	0 62	0 58
Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070	<1 924 1077	<1 1030 1141	0 972 1136
Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m	1150 1270	1001 1244	1056 1319	1015 1295
Sulfur	ppm	ASTM D5185m	2060	3424	3614	3614
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon Sodium Potocoium	ppm ppm	ASTM D5185m ASTM D5185m	>35	4 5	4 5	4
Potassium	ppm	ASTM D5185m	>20	<1	1	2
INFRA-RED	%	method *ASTM D7844	limit/base	current 0.3	history1 0.3	history2 0.3
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	9.2 21.4	9.4 21.6	8.5 20.8
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.8	17.4 7.2	18.8 7.4	16.5 8.2



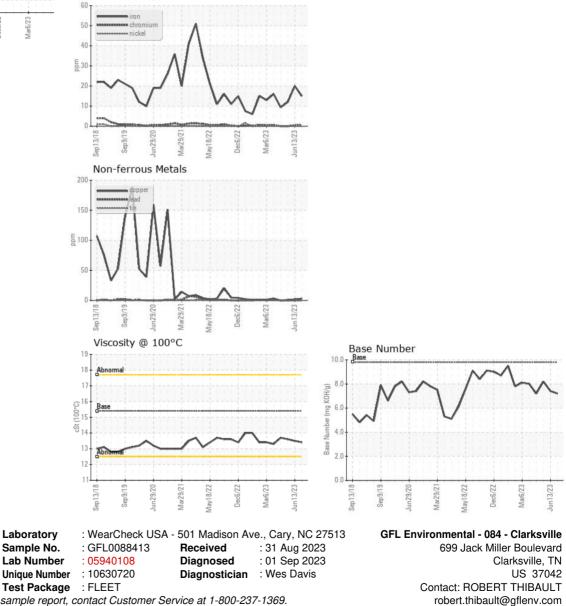
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Ferrous Alloys





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	13.4	13.5	13.6
GRAPHS						





 Certificate 12367
 Test Package
 : FLEET

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 * - 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)

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