

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 10961

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (34 QTS)

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.

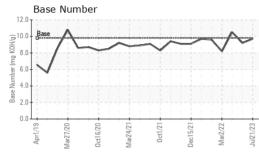
Fluid Condition

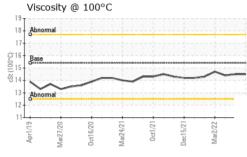
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(TS)		pr2019 Mar	020 Oct2020 Mar20	21 Oct2021 Dec2021 Mar2	Jul202	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0076967	GFL0064942	GFL0055794
Sample Date		Client Info		21 Jul 2023	03 Jan 2023	05 Aug 2022
Machine Age	hrs	Client Info		4485	0	4485
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	>75	2	6	5
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>15	<1	2	1
Lead	ppm	ASTM D5185m	>25	0	1	0
Copper	ppm	ASTM D5185m	>100	0	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10	6	10
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	61	58
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	1024	1045	896
Calcium	ppm	ASTM D5185m	1070	1188	1268	1091
Phosphorus	ppm	ASTM D5185m	1150	1135	1088	982
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1270 2060	1360 4155	1421 4093	1218 3099
CONTAMINAN	ppm TC	method	limit/base		4093 history1	history2
		ASTM D5185m	>25	current 3	8	9
Silicon Sodium	ppm ppm	ASTM D5185m	>20	3 <1	° 2	3
Potassium		ASTM D5185m	>20	0	2	1
	ppm		-			
INFRA-RED	0/	method	limit/base		history1	history2
Soot %	%	*ASTM D7844	>6	0.1	0.2	0.2
Nitration Sulfation	Abs/cm	*ASTM D7624	>20	4.7	6.0	6.1
	Abs/.1mm	*ASTM D7415	>30	17.2	18.1	19.4
FLUID DEGRA			limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.9	13.8	14.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.7	9.2	10.5

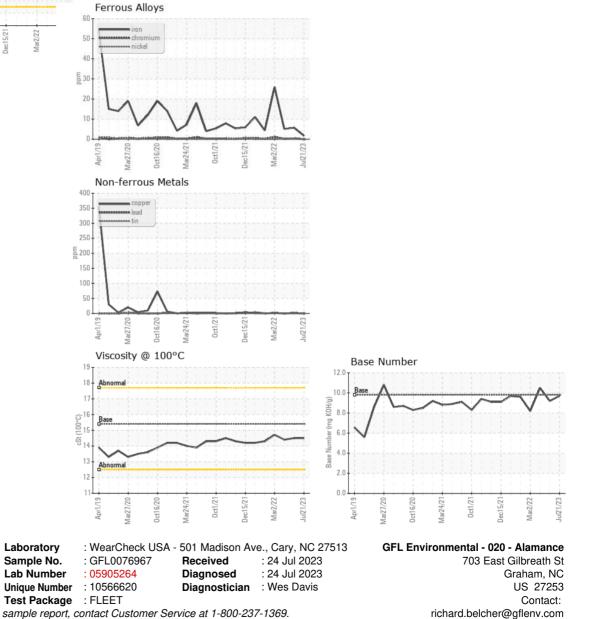


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.5	14.4
GRAPHS						





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)

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