

OIL ANALYSIS REPC

SAMPLE INFOF

Sample Number

Sample Date

Machine Age

Sample Status

CONTAMINA

WEAR METAL

Oil Age Oil Changed

Fuel

Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium Cadmium

Glycol

Sample Rating Trend



Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 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.

OR	Т		ie nating rie		N	ORMAL
		2020 Aug	u Jandozi Orcizzi		0-2023	
RMA	ΓΙΟΝ	method	limit/base	current	history1	history2
		Client Info		GFL0092460	GFL0083655	GFL0074605
		Client Info		08 Nov 2023	12 Oct 2023	11 Jul 2023
hrs		Client Info		13052	13052	9464
hrs	S	Client Info		564	530	546
		Client Info		Changed	Not Changd	Changed
				NORMAL	NORMAL	NORMAL
TION		method	iimi/base	current	TIIStory I	history2
		WC Method	>5	<1.0	<1.0	<1.0
LS		WC Method		<1.0	<1.0	<1.0
		WC Method WC Method	>5	<1.0 NEG	<1.0 NEG	<1.0 NEG
LS	m	WC Method WC Method method	>5 limit/base	<1.0 NEG current	<1.0 NEG history1	<1.0 NEG history2
LS pp	m m	WC Method WC Method method ASTM D5185m	>5 limit/base >100	<1.0 NEG current 7	<1.0 NEG history1 8	<1.0 NEG history2 12
LS pp pp	m m m m	WC Method WC Method method ASTM D5185m ASTM D5185m ASTM D5185m	>5 limit/base >100 >20	<1.0 NEG current 7 <1	<1.0 NEG history1 8 <1 <1 0	<1.0 NEG history2 12 <1 <1 <1 0
LS pp pp	m m m m	WC Method WC Method method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>5 limit/base >100 >20 >4 >3	<1.0 NEG current 7 <1 0 0 0 0	<1.0 NEG history1 8 <1 <1 0 0	<1.0 NEG history2 12 <1 <1 0 0
LS pp pp pp pp	m m m m m	WC Method WC Method Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>5 limit/base >100 >20 >4 	<1.0 NEG current 7 <1 0 0 0 0 0 1	<1.0 NEG history1 8 <1 <1 0 0 0 0	<1.0 NEG history2 12 <1 <1 0 0 0 1
LS pp pp pp pp pp pp	m m m m m m	WC Method WC Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>5 limit/base >100 >20 >4 -4 -3 >20 >20 >40	<1.0 NEG current 7 <1 0 0 0 0 1 0	<1.0 NEG history1 8 <1 <1 0 0 0 0 0 0 0	<1.0 NEG history2 12 <1 <1 <1 0 0 0 1 0
LS pp pp pp pp pp pp	m m m m m m m	WC Method WC Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>5 limit/base >100 >20 >4 >3 >20 >3 >20 >3 >20 >3 >3 >20 >3 >3 >20	<1.0 NEG current 7 <1 0 0 0 0 1 1 0 0 0	<1.0 NEG history1 8 <1 <1 0 0 0 0 0 0 0 <1	<1.0 NEG history2 12 <1 <1 <1 0 0 0 1 0 0 1 0 <1
LS pp pp pp pp pp pp pp	m m m m m m m m	WC Method WC Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>5 limit/base >100 >20 >4 -4 -3 >20 >20 >40	<1.0 NEG current 7 <1 0 0 0 0 1 1 0 0 0 1 1 0 0 1	<1.0 NEG history1 8 <1 <1 0 0 0 0 0 0 <1 <1 <1	<1.0 NEG history2 12 <1 <1 <1 0 0 0 1 0 0 1 0 <1 <1 <1
LS pp pp pp pp pp pp	m m m m m m m m m	WC Method WC Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>5 limit/base >100 >20 >4 >3 >20 >3 >20 >3 >20 >3 >3 >20 >3 >3 >20	<1.0 NEG current 7 <1 0 0 0 0 1 1 0 0 0	<1.0 NEG history1 8 <1 <1 0 0 0 0 0 0 0 <1	<1.0 NEG history2 12 <1 <1 <1 0 0 0 1 0 0 1 0 <1

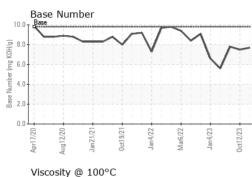
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	<1	7
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	56	57	60
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	937	770	775
Calcium	ppm	ASTM D5185m	1070	999	957	1043
Phosphorus	ppm	ASTM D5185m	1150	1001	883	897
Zinc	ppm	ASTM D5185m	1270	1243	1031	1070
Sulfur	ppm	ASTM D5185m	2060	2908	2567	2706

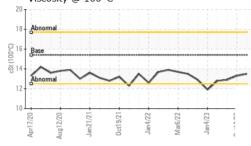
CONTAMINAN	15	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	4
Sodium	ppm	ASTM D5185m		2	<1	2
Potassium	ppm	ASTM D5185m	>20	2	2	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.7
Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.1	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	18.2	19.7
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	13.5	15.1
Base Number (BN)	ma KOH/a	ASTM D2896	9.8	7.7	7.5	7.8

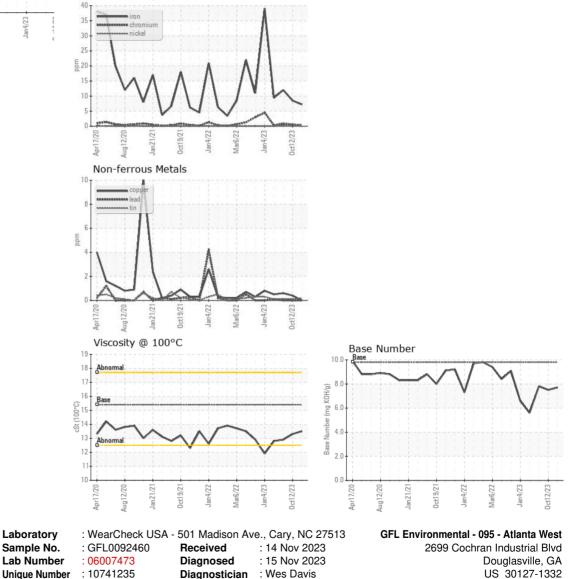


OIL ANALYSIS REPORT





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	13.5	13.3	12.9
GRAPHS						
Ferrous Alloys						





 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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