

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 912021 Component

Fluid

Diesel Engine

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.

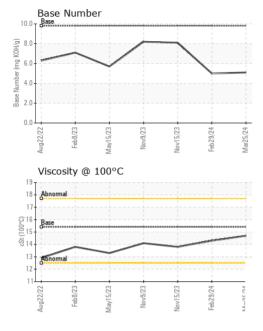
Fluid Condition

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

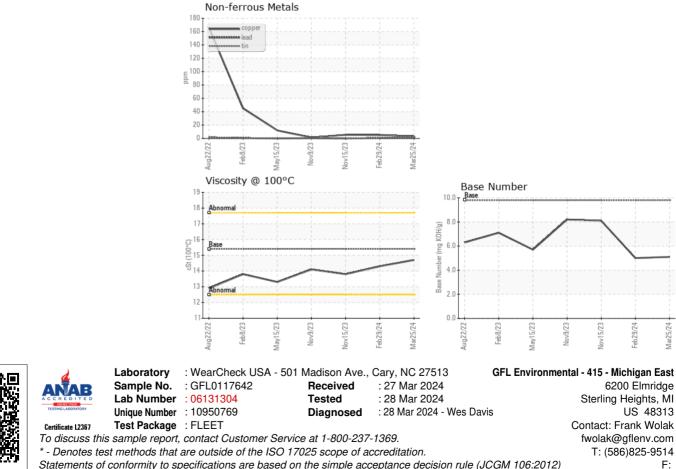
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117642	GFL0108942	GFL0101520
Sample Date		Client Info		25 Mar 2024	29 Feb 2024	15 Nov 2023
Machine Age	hrs	Client Info		5389	5226	4420
Oil Age	hrs	Client Info		5226	4420	4379
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	39	47	6
Chromium	ppm	ASTM D5185m		2	2	<1
Nickel	ppm		>5	7	_ ▲ 11	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		3	6	2
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	3	5	5
Tin	ppm	ASTM D5185m	>15	2	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	4	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	102	56
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	1029	1497	874
Calcium	ppm	ASTM D5185m	1070	1226	1673	1041
Phosphorus	ppm	ASTM D5185m	1150	1039	1584	958
Zinc	ppm	ASTM D5185m	1270	1351	1935	1191
Sulfur	ppm	ASTM D5185m	2060	3154	4033	2641
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	10	5
Sodium	ppm	ASTM D5185m		9	14	4
Potassium	ppm	ASTM D5185m	>20	2	5	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	1.2	1.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	11.5	11.2	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.0	24.3	19.5
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.6	22.1	15.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.1	5.0	8.1



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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	14.7	14.3	13.8			
GRAPHS									
Ferrous Alloys									
20-									



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)