

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 373M Component **Diesel Engine**

Fluid DURON SHP 15W40 (---

SAMPLE INFORM

Sample Number

Sample Date

Machine Age

Sample Status

CONTAMINAT

WEAR METAL

Oil Age Oil Changed

Fuel

Water

Glycol

Iron Chromium Nickel Titanium

Sulfation

Oxidation

GAL)		2021 Nevdazi Judazz	Mužd23 Smj2023 Nov2023 Nov202	23 Feb2024	
MATION	method	limit/base	current	history1	history2
	Client Info		GFL0108933	GFL0101434	GFL0101548
	Client Info		07 Feb 2024	30 Nov 2023	17 Nov 2023
hrs	Client Info		14032	13481	13385
hrs	Client Info		13481	13385	12908
	Client Info		Changed	N/A	Changed
			NORMAL	NORMAL	NORMAL
ION	method	limit/base	current	history1	history2
	WC Method	>3.0	<1.0	<1.0	<1.0
	WC Method	>0.2	NEG	NEG	NEG
	WC Method		NEG	NEG	NEG
S	method	limit/base	current	history1	history2
ppm	ASTM D5185m	>120	17	13	18
ppm	ASTM D5185m	>20	<1	<1	<1
ppm	ASTM D5185m	>5	0	<1	1
ppm	ASTM D5185m	>2	<1	0	<1
ppm	ASTM D5185m	>2	0	0	0
ppm	ASTM D5185m	>20	4	2	2
ppm	ASTM D5185m	>40	2	<1	2
nnm	ASTM D5185m	\330	2	4	2

	pp				0	
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	2	2
Lead	ppm	ASTM D5185m	>40	2	<1	2
Copper	ppm	ASTM D5185m	>330	2	4	2
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	3	1
Barium	ppm	ASTM D5185m	0	0	2	9
Molybdenum	ppm	ASTM D5185m	60	63	59	63
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	1010	864	827	861
Calcium	ppm	ASTM D5185m	1070	1119	1116	1137
Phosphorus	ppm	ASTM D5185m	1150	948	893	950
Zinc	ppm	ASTM D5185m	1270	1161	1141	1188
Sulfur	ppm	ASTM D5185m	2060	2481	3756	2836
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	4	5
Sodium	ppm	ASTM D5185m		15	3	3
Potassium	ppm	ASTM D5185m	>20	5	3	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.6	0.5	0.7
Nitration	Abs/cm	*ASTM D7624	>20	10.0	8.9	8.5

Abs/.1mm *ASTM D7415 >30

Abs/.1mm *ASTM D7414 >25

FLUID DEGRADATION method

Base Number (BN) mg KOH/g ASTM D2896 9.8

22.2

17.7

5.1

20.3

16.9

7.1

	PETRO CANADA D
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.

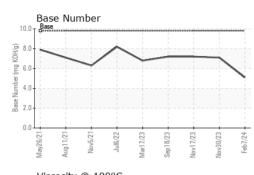
20.9

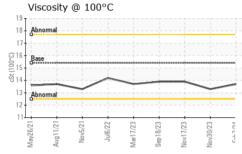
17.0

7.2

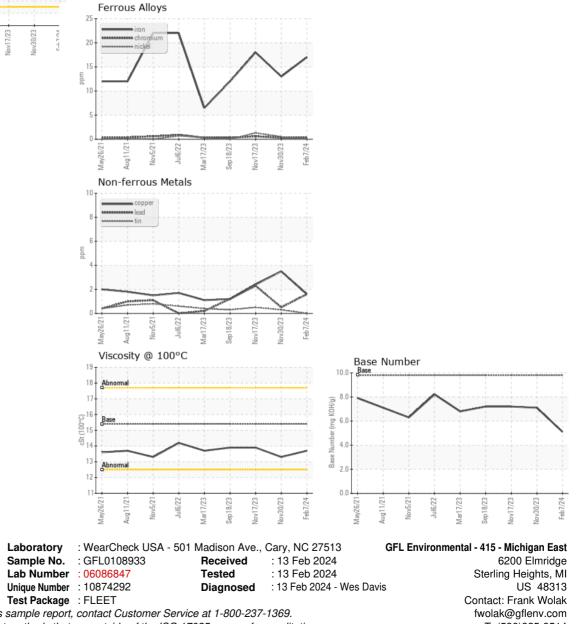


OIL ANALYSIS REPORT





VISUAL		method				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	13.7	13.3	13.9
GRAPHS						



Certificate L2367 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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