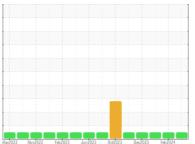


OIL ANALYSIS REPORT

Sample Rating Trend





NORMAL

N SHP 15W40 (- GAL)		May2022 N	ov2022 Feb2023 Jur	n2023 Oct2023 Dec2023	Feb2024	
	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0105262	GFL0105314	GFL0105142
erval to monitor.	Sample Date		Client Info		14 Feb 2024	02 Feb 2024	02 Jan 2024
	Machine Age	hrs	Client Info		5168	5037	4842
rmal.	Oil Age	hrs	Client Info		150	150	600
	Oil Changed		Client Info		Not Changd	Not Changd	Changed
tamination in the	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINA	TION	method	limit/base	current	history1	history2
e is suitable	Fuel		WC Method	>5	<1.0	<1.0	<1.0
condition of the	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	WEAR META	LS	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>110	3	4	3
	Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	5	3	4
	Lead	ppm	ASTM D5185m	>45	<1	<1	<1
	Copper	ppm	ASTM D5185m	>85	1	<1	<1
	Tin	ppm	ASTM D5185m	>4	<1	0	1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	3	0	<1
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	56	57	58
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	885	942	940
	Calcium	ppm	ASTM D5185m	1070	962	1020	1045
	Phosphorus	ppm	ASTM D5185m	1150	971	1035	1036
	Zinc	ppm	ASTM D5185m	1270	1198	1250	1221
	Sulfur	ppm	ASTM D5185m	2060	2941	3141	3095
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>30	3	3	2
	Sodium	ppm	ASTM D5185m		3	2	2
	Potassium	ppm	ASTM D5185m	>20	8	6	4
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.0	5.4	5.3
	Sulfation	Abs/.1mm			18.0	17.7	17.5
	FLUID DEGRA		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	13.6	13.6

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

Machine Id 712027

Component **Diesel Engine**

Fluic PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service inter

Wear

All component wear rates are norr

Contamination

There is no indication of any conta oil.

Fluid Condition

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

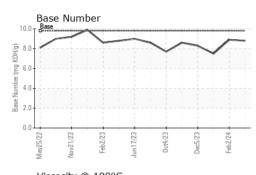
8.8

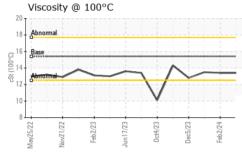
8.9

7.5

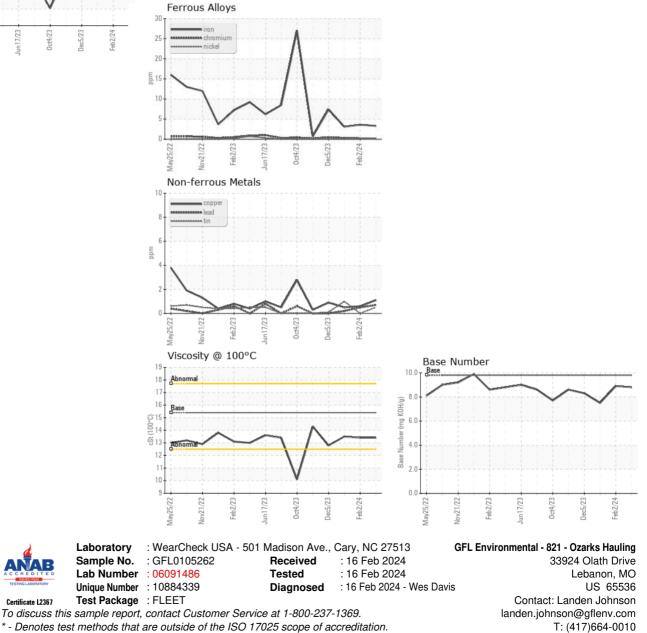


OIL ANALYSIS REPORT





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	13.4	13.4	13.5
GRAPHS						



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

Certificate L2367

F: