

OIL ANALYSIS REPORT

NORMAL



SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0121487	GFL0105339	GFL0105285
Sample Date		Client Info		20 Jun 2024	31 May 2024	15 May 2024
Machine Age	hrs	Client Info		5977	18743	18600
Oil Age	hrs	Client Info		150	150	150
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
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	>75	7	6	4
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m		3	2	1
Lead	ppm	ASTM D5185m		<1	0	0
Copper	ppm	ASTM D5185m		1	3	<1
Tin	ppm	ASTM D5185m		' <1	<1	0
Vanadium	ppm	ASTM D5185m	24	<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES	le le	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum		ASTM D5185m	60	56	54	55
Manganese	ppm	ASTM D5185m		<1	0	0
-	ppm				847	952
Magnesium	ppm	ASTM D5185m	1010	871		
Calcium	ppm	ASTM D5185m	1070	1019	973	1048
Phosphorus	ppm	ASTM D5185m	1150	1005	856	1028
Zinc	ppm	ASTM D5185m	1270	1181	1130	1242
Sulfur	ppm	ASTM D5185m	2060	2943	2976	3624
CONTAMINAN		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	4
Sodium	ppm	ASTM D5185m		2	1	3
Potassium	ppm	ASTM D5185m		4	2	<1
INFRA-RED		method	limit/base	current	history1	history2
	%	*ASTM D7844	>6	0.2	0.2	0.2
Soot %			. 00	6.8	6.3	5.9
Soot % Nitration	Abs/cm	*ASTM D7624	>20	0.0	0.0	0.0
	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415		18.6	18.3	17.7
Nitration	Abs/.1mm	*ASTM D7415				
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30 limit/base	18.6	18.3	17.7

Machine Id 228053

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (7 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

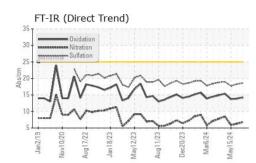
There is no indication of any contamination in the oil.

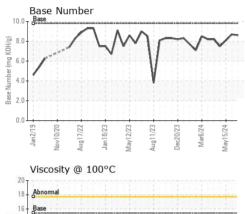
Fluid Condition

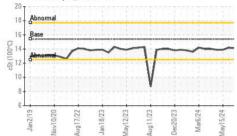
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



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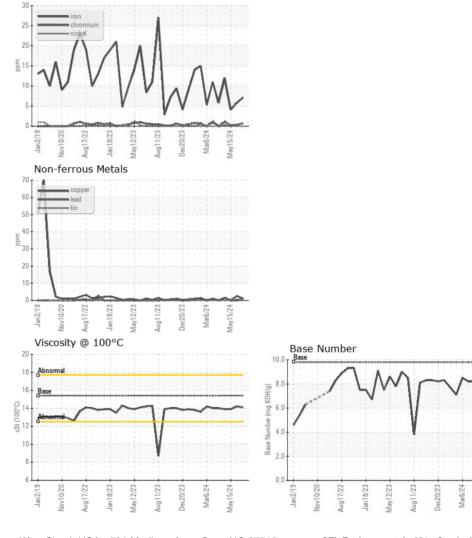


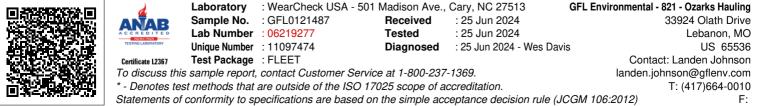




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	14.1	14.2	13.9
GRAPHS						

Ferrous Alloys





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Submitted By: Gary Southard

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