

OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine Fluid

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

N SHF 15W40 (*		Jan2023	Mar2023 Apr2023	Sep2023 Dec2023	Mar2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history
Sample Number		Client Info		GFL0103904	GFL0103863	GFL010383
Sample Date		Client Info		12 Mar 2024	11 Jan 2024	29 Dec 202
Machine Age	hrs	Client Info		4844	4844	4740
Oil Age	hrs	Client Info		4844	4244	496
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history
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 META	_S	method	limit/base	current	history1	history
Iron	ppm	ASTM D5185m	>120	12	8	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	1
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	8	23	9
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m	0	4	3	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	58	56
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	979	976	888
Calcium	ppm	ASTM D5185m	1070	1100	1091	1035
Phosphorus	ppm	ASTM D5185m	1150	1022	1016	972
Zinc	ppm	ASTM D5185m	1270	1250	1241	1192
Sulfur	ppm	ASTM D5185m	2060	3575	2784	2775
CONTAMINA	NTS	method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>25	3	3	3
Sodium	ppm	ASTM D5185m		3	4	4
Potassium	ppm	ASTM D5185m	>20	<1	2	2
INFRA-RED		method	limit/base	current	history1	history
Soot %	%	*ASTM D7844	>4	0.4	0.6	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.5	8.6	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	19.5	19.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history
Oxidation	Abs/.1mm	*ASTM D7414	. 05	447	15.1	14.6
Oxidation	AUS/.IIIIII	ASTIVI D7414	>25	14.7	15.1	14.0

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

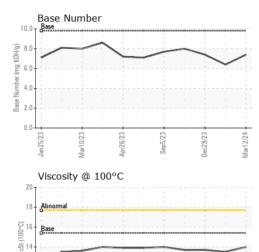
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

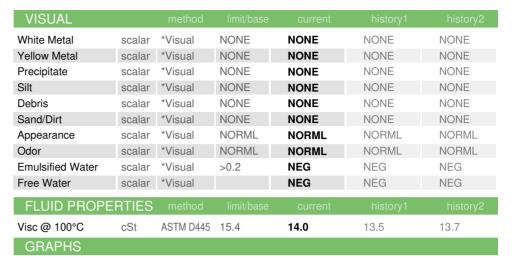


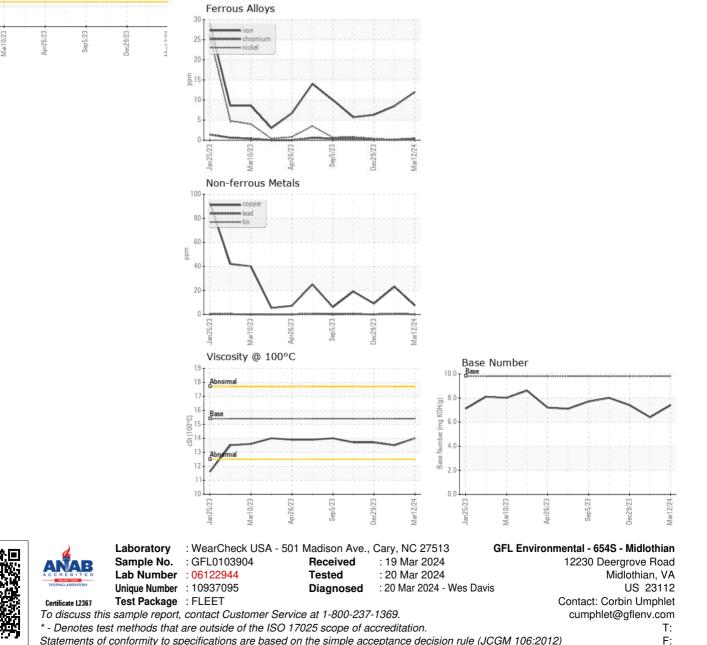
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10 lan25/23

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

Submitted By: Matt oversee 654, 654S, 659 - Matthew Shinault