

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

Component Diesel Engine

Fluid 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	/ ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108722	GFL0089101	GFL0068675
Sample Date		Client Info		04 Jan 2024	22 Nov 2023	08 Feb 2023
Machine Age	hrs	Client Info		21319	21040	19133
Oil Age	hrs	Client Info		1189	19133	16198
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	27	15	39
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	3
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	3	1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	3	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	60	64
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1021	1019	969
Calcium	ppm	ASTM D5185m	1070	1131	1126	1144
Phosphorus	ppm	ASTM D5185m	1150	1137	981	1044
Zinc	ppm	ASTM D5185m	1270	1314	1383	1274
Sulfur	ppm	ASTM D5185m	2060	3406	3167	2859
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	6	8
Sodium	ppm	ASTM D5185m		6	4	13
Potassium	ppm	ASTM D5185m	>20	1	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	0.6	1
Nitration	Abs/cm	*ASTM D7624	>20	10.4	8.7	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	20.5	21.8
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	16.1	18.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.4	8.2	8.1
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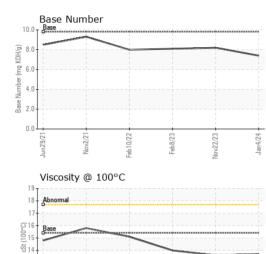


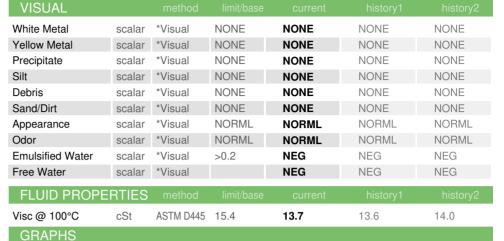
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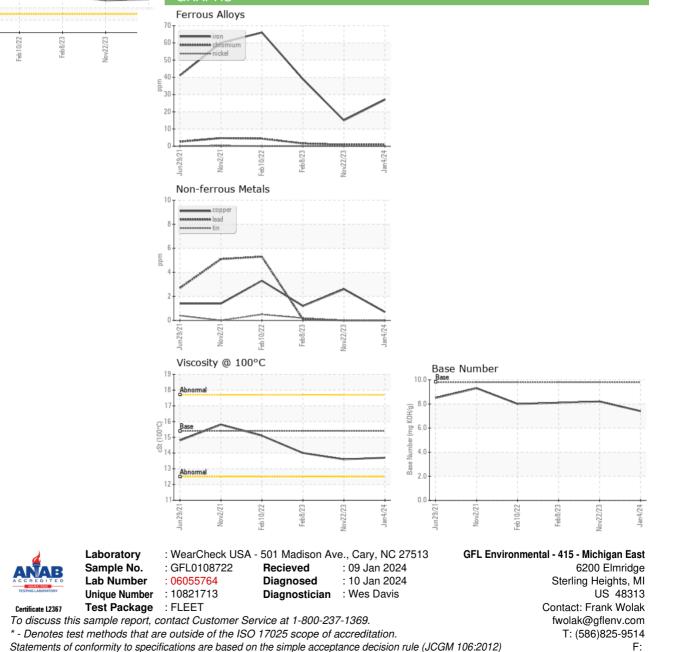
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