

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id 801062 Component

Fluid

Diesel Engine

PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

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.

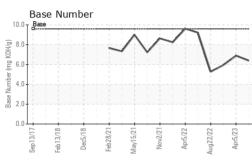
Fluid Condition

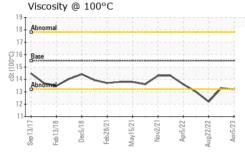
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084282	GFL0077560	GFL0063786
Sample Date		Client Info		19 Jul 2023	05 Apr 2023	05 Jan 2023
Machine Age	kms	Client Info		280200	12874	12315
Oil Age	kms	Client Info		0	563	563
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	MARGINAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	A 3.3
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	28	23	27
Chromium	ppm	ASTM D5185(m)	>5	1	1	1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>15	5	7	7
Lead	ppm	ASTM D5185(m)	>25	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>100	1	1	1
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	2	2	2
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	56	55	55
Manganese	ppm	ASTM D5185(m)	1	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	913	893	894
Calcium	ppm	ASTM D5185(m)	1070	1002	1087	1025
Phosphorus	ppm	ASTM D5185(m)	1150	989	1016	994
Zinc	ppm	ASTM D5185(m)	1270	1129	1131	1123
Sulfur	ppm	ASTM D5185(m)	2060	2279	2431	2318
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	8	8
Sodium	ppm	ASTM D5185(m)		8	7	8
Potassium	ppm	ASTM D5185(m)	>20	<1	2	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	1.2	0.9	0.7
Nitration	Abs/cm	ASTM D7624*	>20	11.9	10.9	10.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.6	22.6	23.1



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Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

CALA

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Laboratory

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