



LEAHY-WOLF
Lubricating specialists since 1946

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
MG
Machine Id
GMC 1074
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LW0002360	LW0005739	LW0002018
Sample Date		Client Info		16 Jun 2023	13 Feb 2023	17 Aug 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		600	0	800
Filter Age	hrs	Client Info		600	0	800
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	31	33	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	4	2
Lead	ppm	ASTM D5185m	>40	2	<1	<1
Copper	ppm	ASTM D5185m	>330	1	4	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

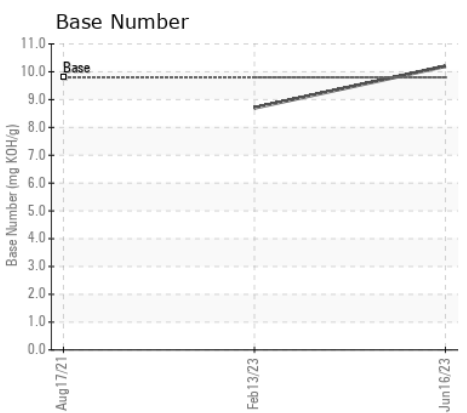
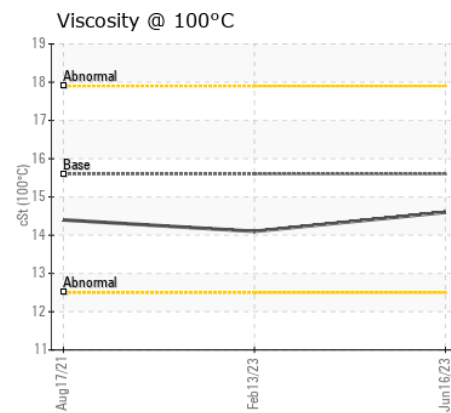
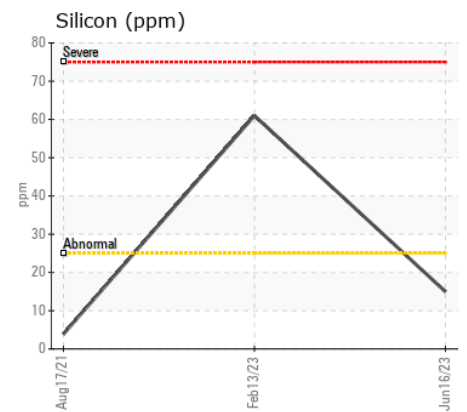
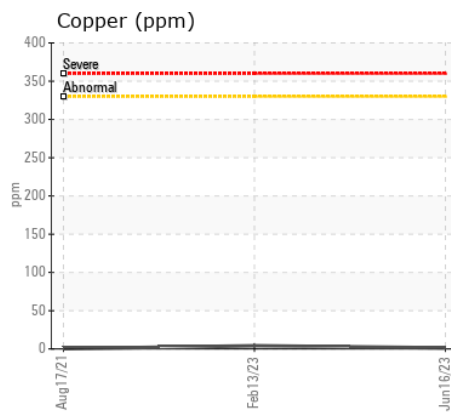
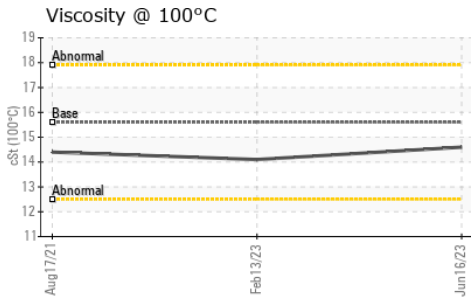
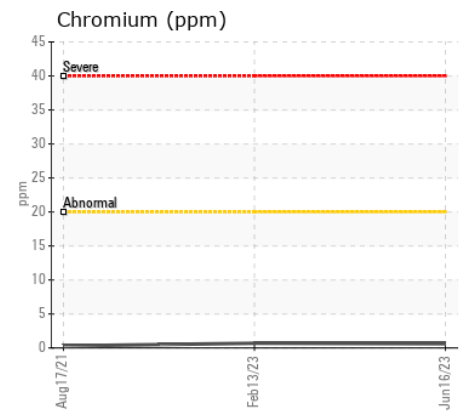
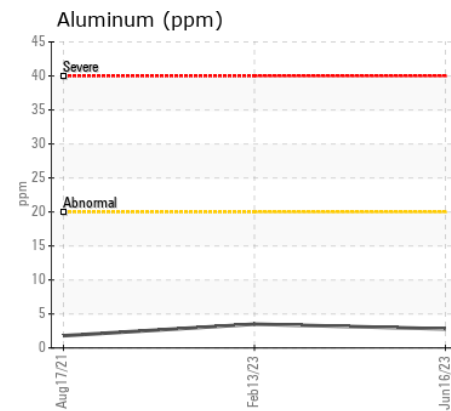
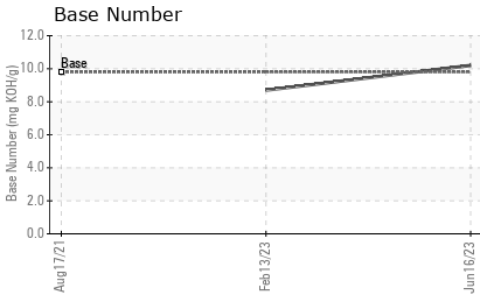
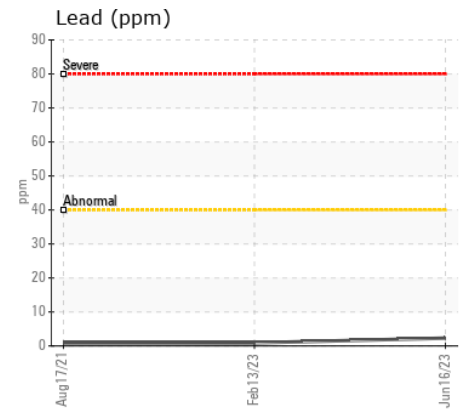
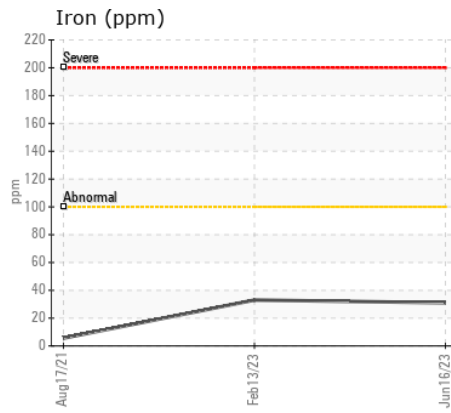
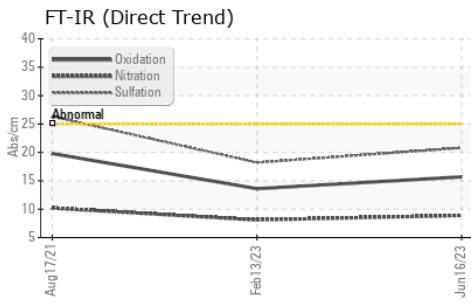
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	15	▲ 61	4
Potassium	ppm	ASTM D5185m	>20	<1	1	4
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.1	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.9	8.1	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	18.2	26.3
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

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.

Sodium	ppm	ASTM D5185m		0	1	2
Boron	ppm	ASTM D5185m		5	51	102
Barium	ppm	ASTM D5185m		2	2	0
Molybdenum	ppm	ASTM D5185m		62	69	6
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		876	349	725
Calcium	ppm	ASTM D5185m		1125	1724	1386
Phosphorus	ppm	ASTM D5185m		1045	1011	1070
Zinc	ppm	ASTM D5185m		1245	1185	1257
Sulfur	ppm	ASTM D5185m		3287	3427	3473
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	13.6	19.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	10.2	8.7	---
Visc @ 100°C	cSt	ASTM D445	15.6	14.6	14.1	14.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LW0002360
Lab Number : 05877885
Unique Number : 10522988
Test Package : MOB1+
Received : 20 Jun 2023
Tested : 21 Jun 2023
Diagnosed : 21 Jun 2023 - Wes Davis

LRS - MORTON GROVE
 6132 OAKTON ST
 MORTON GROVE, IL
 US 60053
 Contact: MIKE MILANO
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 T: (630)205-4174
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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