

Machine Id **4592L** Component **Diesel Engine** Fluid **MOBIL 15W40 (--- GAL)**

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is an abnormal amount of solids and carbon present in the oil.

Oil Age	mls	Client Info		15000	15000	0
Filter Age	mls	Client Info		15000	15000	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
		ASTM D5185m	100	<u>0</u> 4	70	79
Iron	ppm		>100	91	73 2	1
Chromium	ppm	ASTM D5185m	>20	2	_	
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	0	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	31	52	37
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	0	2	1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon		ASTM D5185m	>25	6	7	6
	ppm			92	117	o 151
Potassium	ppm	ASTM D5185m	>20			
Fuel	%	ASTM D3524	>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	A 3.1	1.8	1.2
Nitration	Abs/cm	*ASTM D7624	>20	21.8	15.4	22.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	38.1	28.7	35.0
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

WEAR

CONTAMINATION

FLUID CONDITION

Limit/Abn

Current

IL0034324

02 May 2024

70851

Test

Sample Number

Machine Age mls

Sample Date

UOM

Method

Client Info

Client Info

Client Info

NORMAL

ABNORMAL

NORMAL

History1

59736

History2

4972

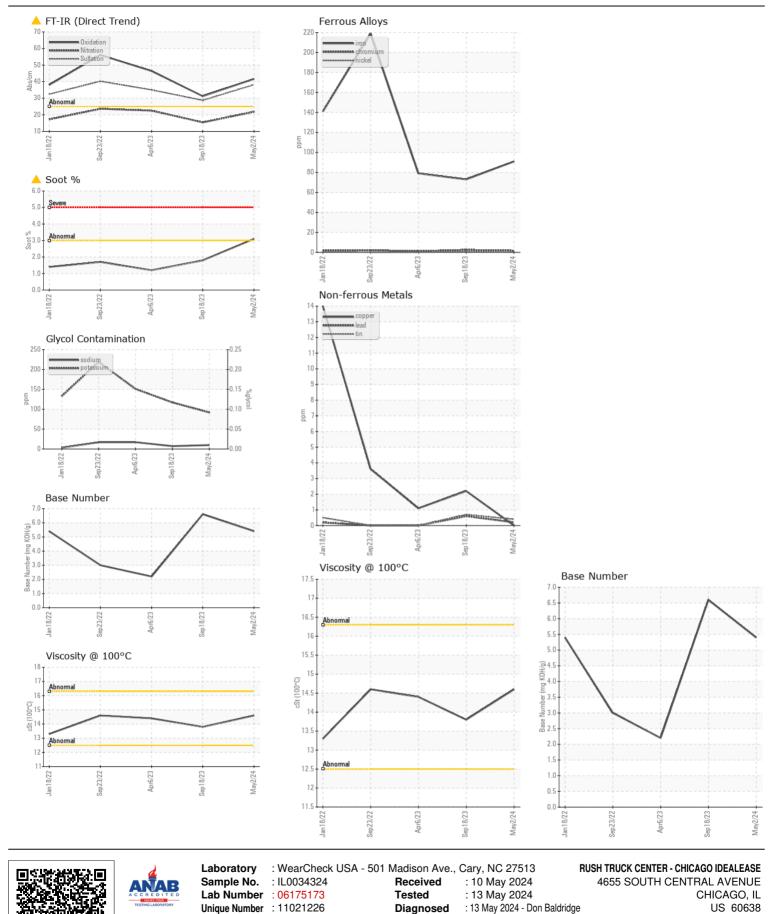
IL0032502 IL0028999

18 Sep 2023 06 Apr 2023

FLUID CONDITION

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

Water		WC Method	>0.2	I	NEG	NEG	NEG
Glycol		WC Method		1	NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3		3.1	1.8	1.2
Nitration	Abs/cm	*ASTM D7624	>20	2	21.8	15.4	22.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	:	38.1	28.7	35.0
Silt	scalar	*Visual	NONE	1	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	I	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	1	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	I	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	I	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	I	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>118		10	7	17
Boron	ppm	ASTM D5185m		2	2	1	2
Barium	ppm	ASTM D5185m		(0	0	0
Molybdenum	ppm	ASTM D5185m		6	61	66	59
Manganese	ppm	ASTM D5185m		-	1	2	1
Magnesium	ppm	ASTM D5185m		9	903	1074	831
Calcium	ppm	ASTM D5185m		-	1051	1134	1073
Phosphorus	ppm	ASTM D5185m		-	1021	1126	894
Zinc	ppm	ASTM D5185m		-	1195	1416	1114
Sulfur	ppm	ASTM D5185m		:	3363	3551	2521
Oxidation	Abs/.1mm	*ASTM D7414	>25	4	41.6	31.2	46.4
Base Number (BN)	mg KOH/g	ASTM D2896		ł	5.4	6.6	▲ 2.2
Visc @ 100°C	cSt	ASTM D445		Ľ	14.6	13.8	14.4



Test Package : FLEET (Additional Tests: FuelDilution) Contact: MIKE LINLEY Certificate L2367 linleym@rushtruckcenters.com 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)

Contact/Location: MIKE LINLEY - IDECHIL Page 2 of 2

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