

Machine Id							
4537L							
Component							
Diesel Engine							
Fluid							
DIESEL ENGINE OIL SAE 15W40 (QTS)							
RECOMMENDATION							
The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.							

	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		IL06175100	IL0025782	IL0025803
hedule	Sample Date		Client Info		03 May 2024	18 Jul 2023	14 Oct 2022
	Machine Age	mls	Client Info		101894	87304	72616
	Oil Age	mls	Client Info		0	15000	15000
	Filter Age	mls	Client Info		0	15000	15000
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				ABNORMAL	SEVERE	ABNORMAL
	Iron	ppm	ASTM D5185m	>100	45	58	27
	Chromium	ppm	ASTM D5185m	>20	2	3	1
	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	6	8	8
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	2	1	2
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Ciliaan			. 05	4	c	
	Silicon	ppm	ASTM D5185m	>25		6	5
tion in	Potassium	ppm	ASTM D5185m	>20	10	8	11
	Fuel	%	ASTM D3524	>5	0.3	▲ 13.1	▲ 5.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1	0.9	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	14.2	14.5	13.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	32.4	36.5	29.6
	Silt Debris	scalar	*Visual *Visual	NONE	NONE	NONE	NONE
		scalar	*Visual	NONE	NONE NONE	NONE	NONE
	Sand/Dirt	scalar		NONE	NORE	NONE NORML	
	Appearance Odor	scalar scalar	*Visual *Visual	NORML		NORML	NORML
	Emulsified Water		*Visual	>0.2	NORML NEG	NEG	NEG
		scalar	visual	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185m	>158	3	2	<1
	Boron	ppm	ASTM D5185m	250	0	5	25
e time	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	58	50	25
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	885	832	466
	Calcium	ppm	ASTM D5185m	3000	1027	1032	1396
	Phosphorus	ppm	ASTM D5185m	1150	917	830	548
	Zinc	ppm	ASTM D5185m	1350	1099	1074	757
	Sulfur	ppm	ASTM D5185m	4250	3147	3230	2855
	Oxidation	Abs/.1mm	*ASTM D7414	>25	39.7	50.5	35.7
				-			

Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D445 14.4

Visc @ 100°C cSt

All component wear rates are normal.

WEAR

	<i>Ι</i> ΙΝΑΤ	

Fuel content negligible. There is no indication of any contaminat the oil.

FLUID CONDITION

The BN level is low. The condition of the oil is acceptable for the in service.

2.8

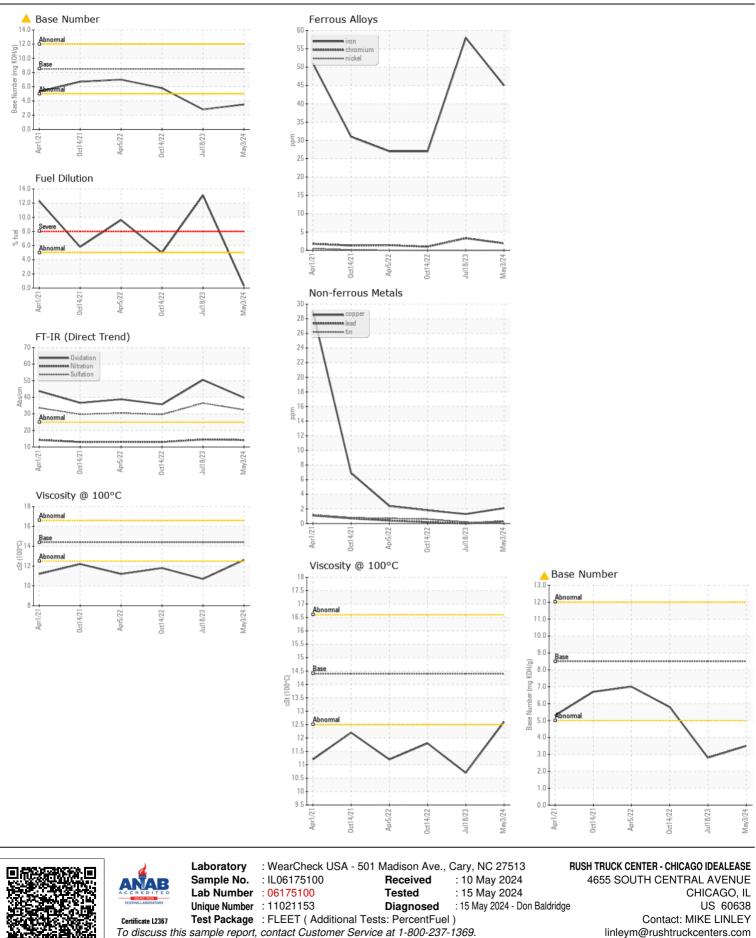
10.7

5.8

11.8

3.5

12.6



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

T: (708)496-7500

F: (708)496-8818