



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL 441322
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 30 (21 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0030513	IL0021855	ILMFC27921
Sample Date		Client Info		17 Jan 2024	11 Jun 2021	05 Jul 2019
Machine Age	mls	Client Info		58647	30433	2202
Oil Age	mls	Client Info		0	0	2202
Filter Age	mls	Client Info		0	0	2202
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>130	54	46	17
Chromium	ppm	ASTM D5185m	>10	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	18	29	6
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>125	8	15	12
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

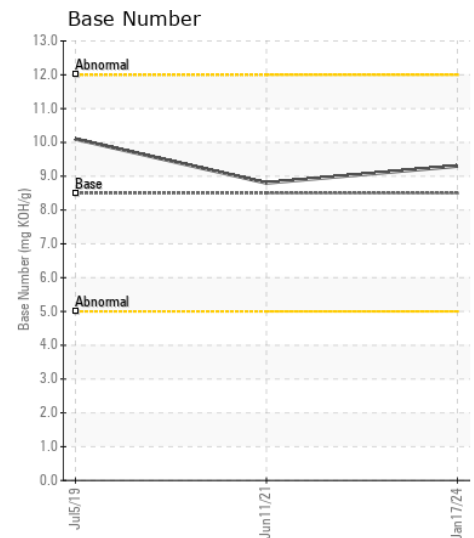
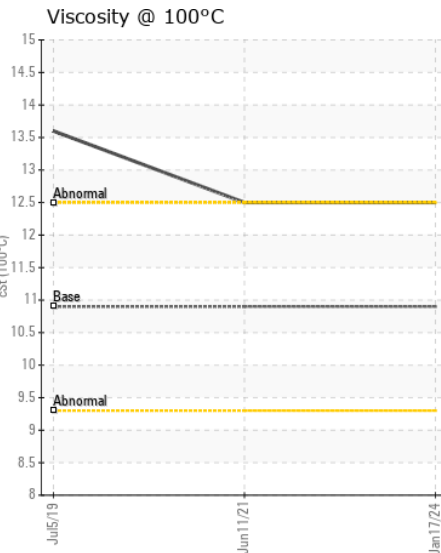
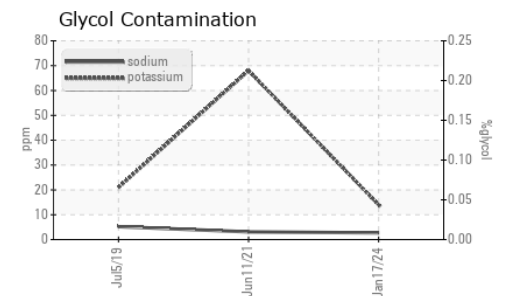
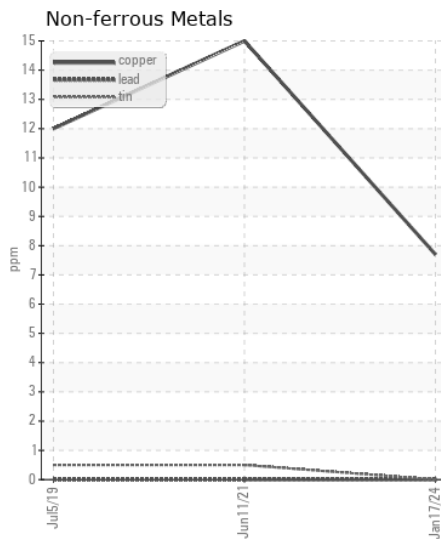
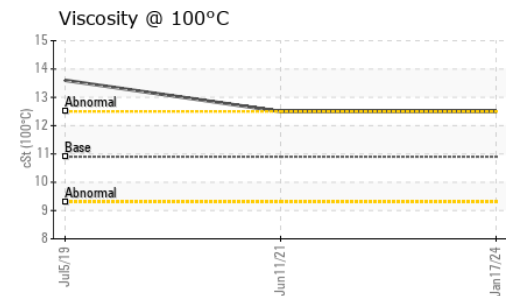
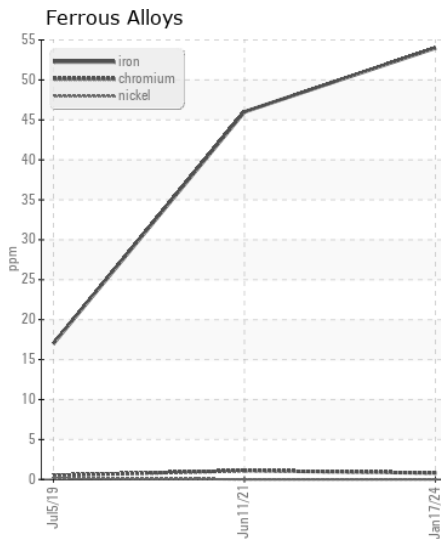
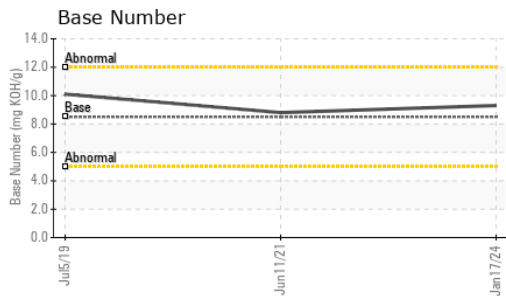
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	9	34
Potassium	ppm	ASTM D5185m	>20	14	▲ 68	21
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.4	0.4	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.9	10.4	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	22.2	19.8
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	>75	3	3	5
Boron	ppm	ASTM D5185m	250	9	60	62
Barium	ppm	ASTM D5185m	10	0	0	6
Molybdenum	ppm	ASTM D5185m	100	60	25	44
Manganese	ppm	ASTM D5185m		<1	1	3
Magnesium	ppm	ASTM D5185m	450	931	645	595
Calcium	ppm	ASTM D5185m	3000	1148	1591	1403
Phosphorus	ppm	ASTM D5185m	1150	1053	782	896
Zinc	ppm	ASTM D5185m	1350	1248	894	966
Sulfur	ppm	ASTM D5185m	4250	3201	2581	3559
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	18.6	16.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.3	8.8	10.1
Visc @ 100°C	cSt	ASTM D445	10.9	12.5	12.5	13.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0030513 **Received** : 18 Jan 2024
Lab Number : 06064826 **Diagnosed** : 21 Jan 2024
Unique Number : 10836208 **Diagnostician** : Don Baldrige
Test Package : FLEET (Additional Tests: Glycol)

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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)