



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**8317558**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 10W30 (--- QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0036849</b>	IL05770189	---
Sample Date		Client Info		<b>17 Jun 2024</b>	13 Jan 2023	---
Machine Age	mls	Client Info		<b>73668</b>	32936	---
Oil Age	mls	Client Info		<b>0</b>	0	---
Filter Age	mls	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	<b>69</b>	59	---
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	4	---
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>10</b>	14	---
Lead	ppm	ASTM D5185m	>40	<b>5</b>	5	---
Copper	ppm	ASTM D5185m	>330	<b>5</b>	27	---
Tin	ppm	ASTM D5185m	>15	<b>2</b>	3	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

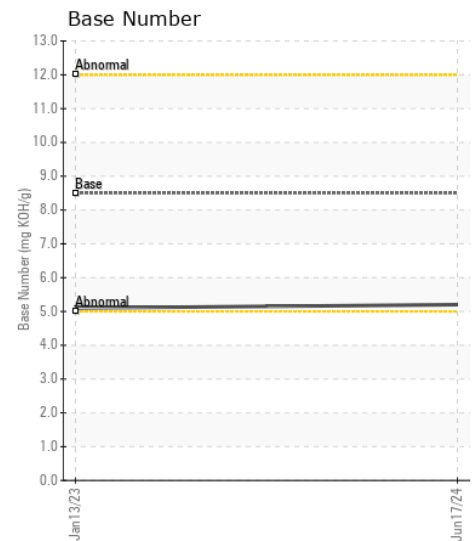
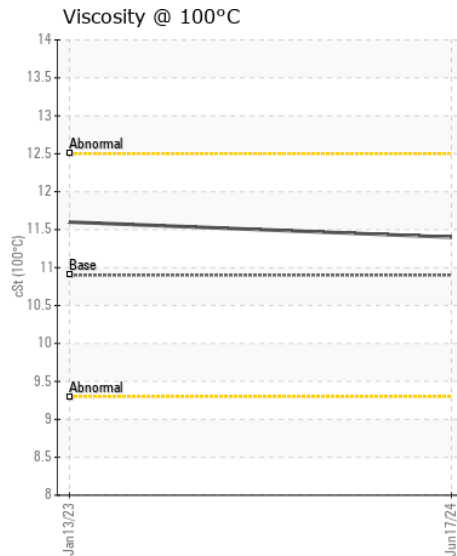
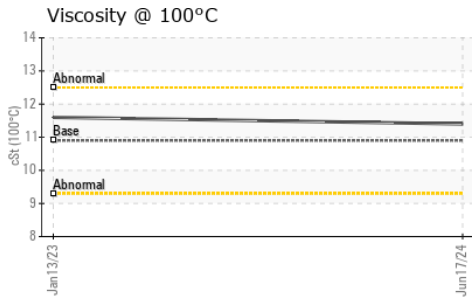
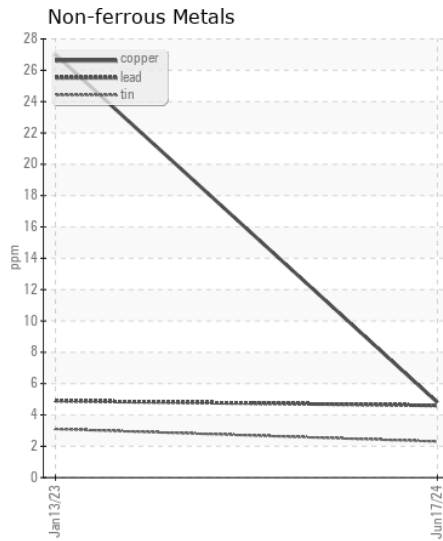
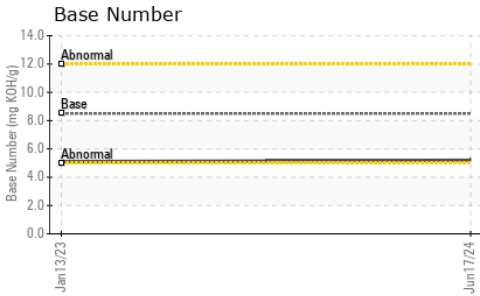
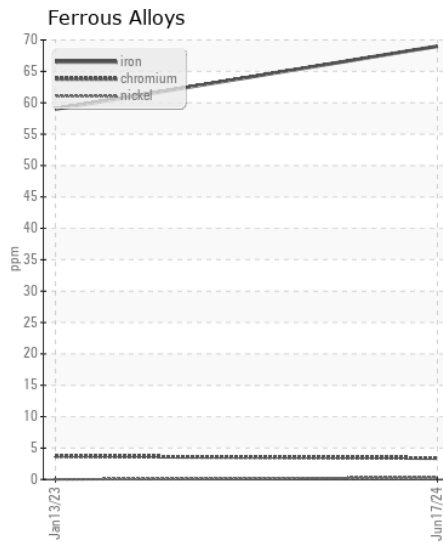
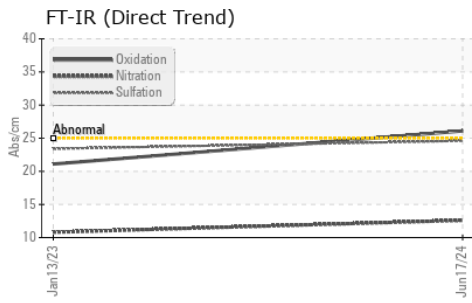
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>15</b>	44	---
Potassium	ppm	ASTM D5185m	>20	<b>21</b>	43	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	1.4	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.6</b>	10.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.6</b>	23.4	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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		<b>4</b>	3	---
Boron	ppm	ASTM D5185m	250	<b>18</b>	22	---
Barium	ppm	ASTM D5185m	10	<b>0</b>	3	---
Molybdenum	ppm	ASTM D5185m	100	<b>45</b>	64	---
Manganese	ppm	ASTM D5185m		<b>2</b>	6	---
Magnesium	ppm	ASTM D5185m	450	<b>493</b>	421	---
Calcium	ppm	ASTM D5185m	3000	<b>1613</b>	1750	---
Phosphorus	ppm	ASTM D5185m	1150	<b>747</b>	971	---
Zinc	ppm	ASTM D5185m	1350	<b>892</b>	1212	---
Sulfur	ppm	ASTM D5185m	4250	<b>2491</b>	2773	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>26.1</b>	21.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>5.2</b>	5.1	---
Visc @ 100°C	cSt	ASTM D445	10.9	<b>11.4</b>	11.6	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL0036849  
**Lab Number** : 06239689  
**Unique Number** : 11128523  
**Test Package** : FLEET  
**Received** : 17 Jul 2024  
**Tested** : 18 Jul 2024  
**Diagnosed** : 19 Jul 2024 - Sean Felton

**IDEALASE-NORCROSS**  
 4571 NORTH BUFORD HWY  
 NORCROSS, GA  
 US 30071-2808  
 Contact: RICK MARKS

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)

T:  
F: (770)300-0614