



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**MCCLOSKEY 91585 - VARIABLE SPEED**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA054031	VPA040932	---
Sample Date		Client Info		20 May 2024	17 Feb 2023	---
Machine Age	hrs	Client Info		2815	2812	---
Oil Age	hrs	Client Info		1100	700	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	MARGINAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	7	25	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	<1	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	2	4	---
Lead	ppm	ASTM D5185m	>40	2	7	---
Copper	ppm	ASTM D5185m	>330	19	68	---
Tin	ppm	ASTM D5185m	>15	2	7	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

### CONTAMINATION

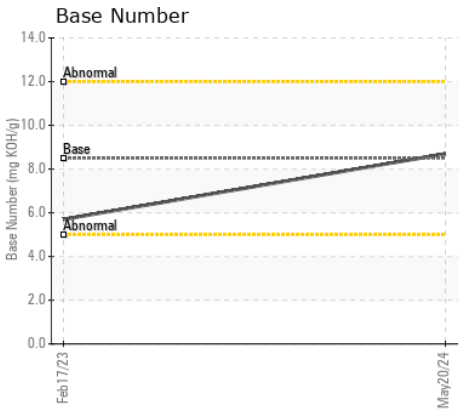
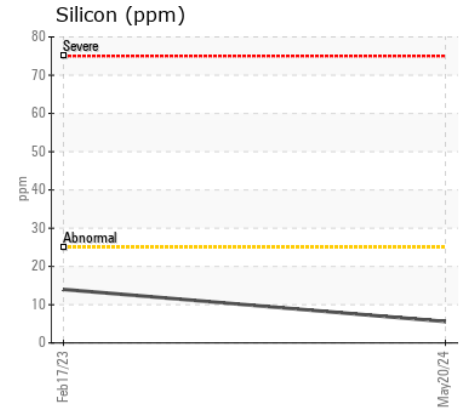
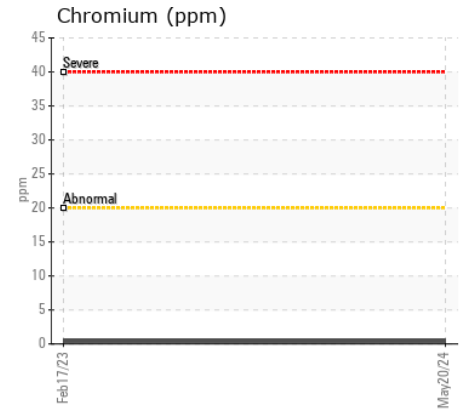
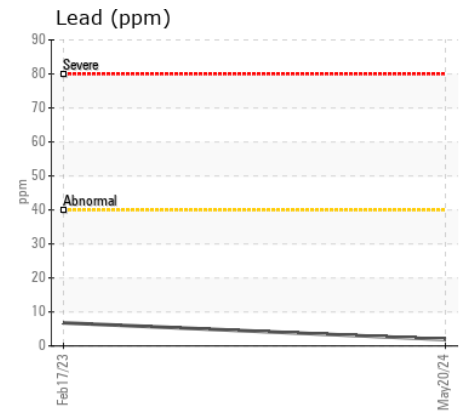
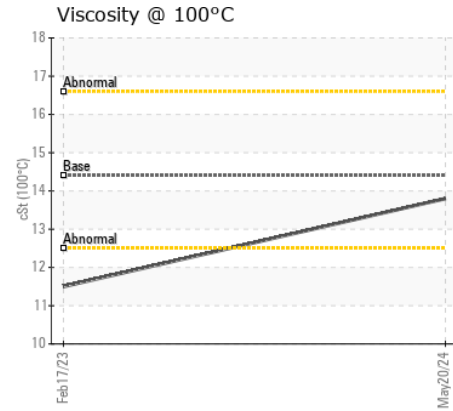
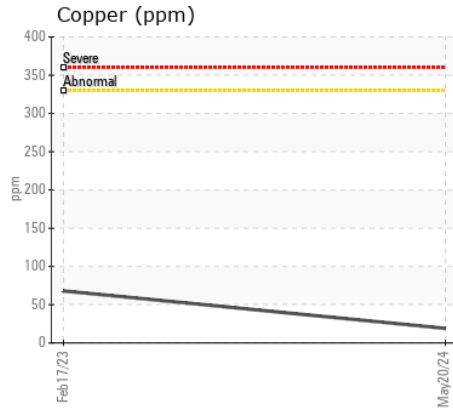
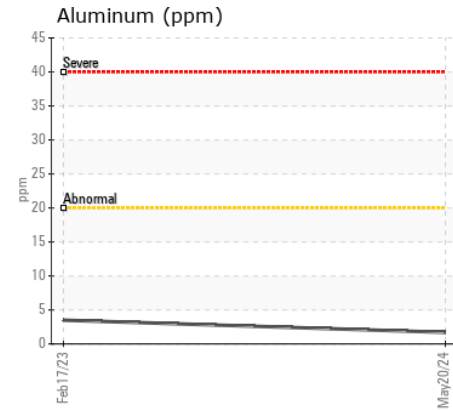
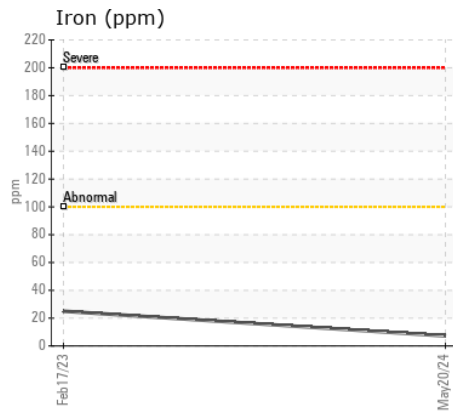
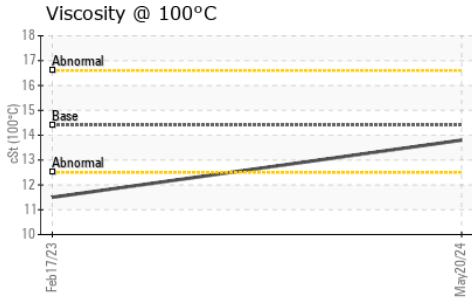
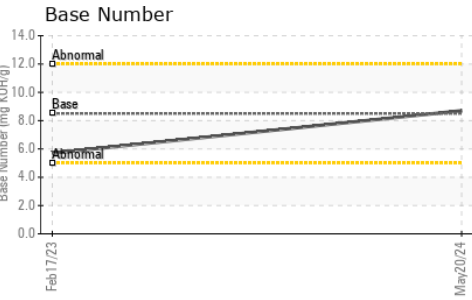
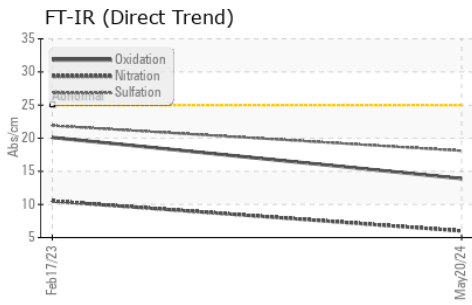
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	14	---
Potassium	ppm	ASTM D5185m	>20	3	8	---
Fuel		WC Method	>5	<1.0	▲ 2.4	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	6.0	10.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	21.9	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	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	>216	<1	1	---
Boron	ppm	ASTM D5185m	250	12	0	---
Barium	ppm	ASTM D5185m	10	0	2	---
Molybdenum	ppm	ASTM D5185m	100	56	60	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m	450	843	696	---
Calcium	ppm	ASTM D5185m	3000	1102	1383	---
Phosphorus	ppm	ASTM D5185m	1150	992	900	---
Zinc	ppm	ASTM D5185m	1350	1178	1177	---
Sulfur	ppm	ASTM D5185m	4250	3048	2243	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	20.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.7	5.7	---
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	11.5	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VPA054031 **Received** : 03 Jun 2024  
**Lab Number** : 06197384 **Tested** : 04 Jun 2024  
**Unique Number** : 11059507 **Diagnosed** : 04 Jun 2024 - Sean Felton  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MCCOURT & SONS EQUIPMENT INC**  
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 LA GRANGE, TX  
 US 78945  
 Contact: WAYNE BESEDA  
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 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)