



# OIL ANALYSIS REPORT

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

Machine Id  
**A-315.2**  
 Component  
**Gearbox**  
 Fluid  
**MOBIL DTE OIL EXTRA HEAVY (--- LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

There is no indication of any contamination in the oil.

## FLUID CONDITION

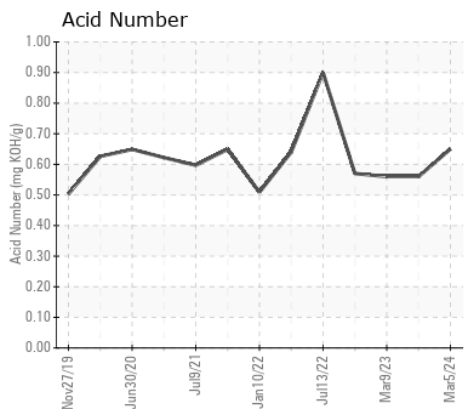
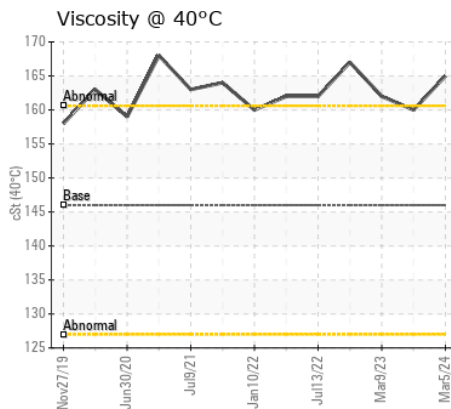
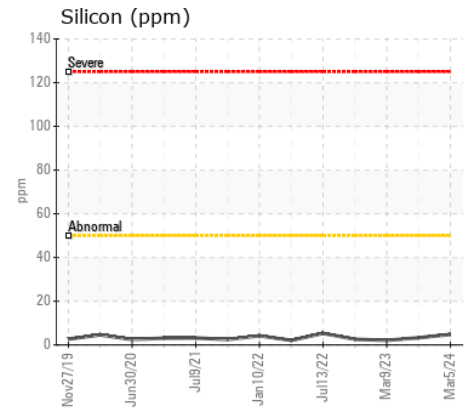
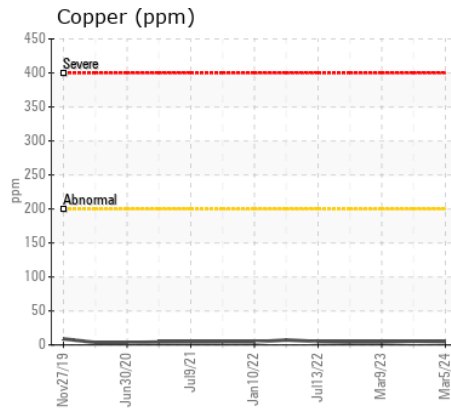
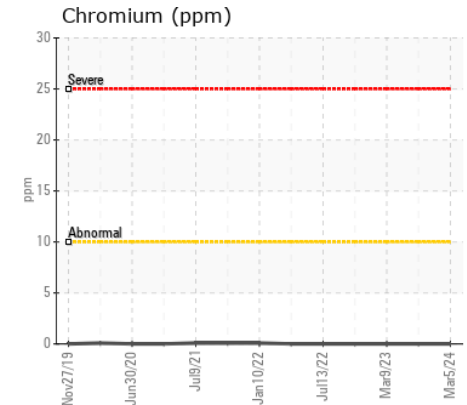
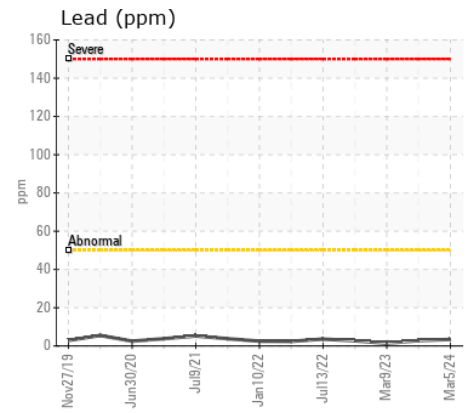
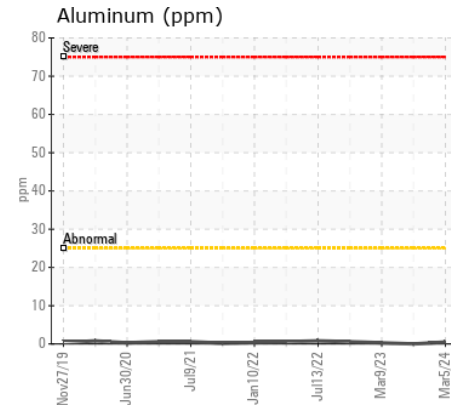
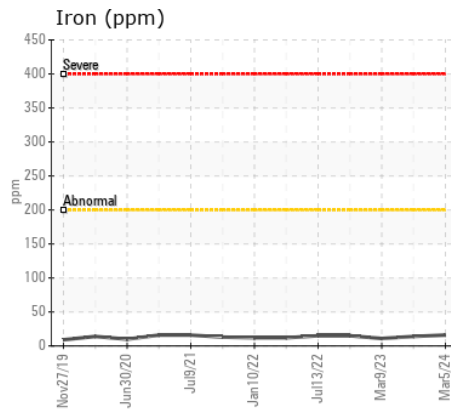
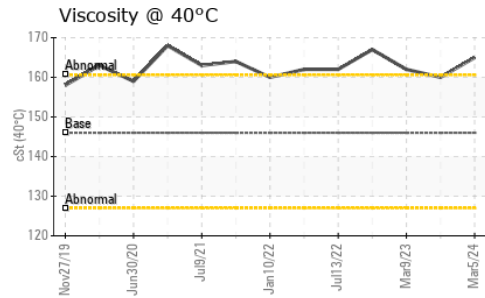
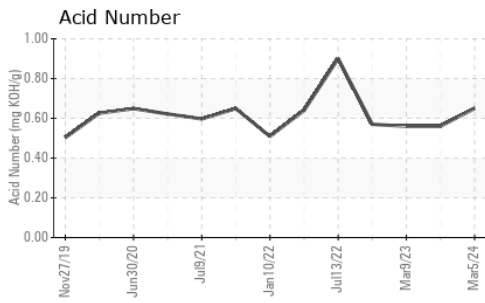
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>HPL0004095</b>	HPL0004058	HPL0002171
Sample Date		Client Info		<b>05 Mar 2024</b>	29 Sep 2023	09 Mar 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

Iron	ppm	ASTM D5185m	>200	<b>16</b>	14	11
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	<1
Lead	ppm	ASTM D5185m	>50	<b>3</b>	3	1
Copper	ppm	ASTM D5185m	>200	<b>5</b>	6	4
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

Silicon	ppm	ASTM D5185m	>50	<b>5</b>	3	2
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

Sodium	ppm	ASTM D5185m		<b>5</b>	4	4
Boron	ppm	ASTM D5185m		<b>4</b>	1	2
Barium	ppm	ASTM D5185m		<b>61</b>	42	40
Molybdenum	ppm	ASTM D5185m		<b>14</b>	12	9
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>3</b>	3	2
Calcium	ppm	ASTM D5185m		<b>127</b>	127	120
Phosphorus	ppm	ASTM D5185m		<b>450</b>	459	425
Zinc	ppm	ASTM D5185m		<b>506</b>	527	475
Sulfur	ppm	ASTM D5185m		<b>12889</b>	12341	12206
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.65</b>	0.56	0.56
Visc @ 40°C	cSt	ASTM D445	146	<b>165</b>	160	162



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : HPL0004095

**Lab Number** : 06121698

**Unique Number** : 10930531

**Test Package** : MOB 2

**Received** : 18 Mar 2024

**Tested** : 19 Mar 2024

**Diagnosed** : 21 Mar 2024 - Jonathan Hester

**STEPAN - MILLSDALE PLANT**

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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)