OIL ANALYSIS REPORT
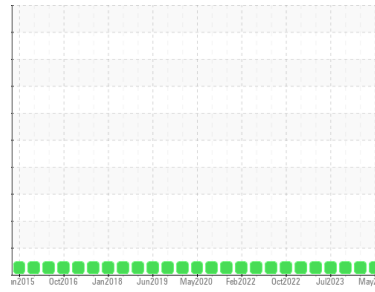
Sample Rating Trend

NORMAL

Machine Id
KD-1 GEN
Component
Lube System
Fluid
MOBIL DTE 10 (--- GAL)

DIAGNOSIS

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 component. The amount and size of particulates present in the system is acceptable.

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		**USP0012884**	USP0007076	USP255352
Sample Date	Client Info		**30 May 2024**	25 Jan 2024	09 Nov 2023
Machine Age	mths	Client Info	**0**	0	0
Oil Age	mths	Client Info	**0**	0	0
Oil Changed		Client Info	**N/A**	N/A	N/A
Sample Status			**NORMAL**	NORMAL	NORMAL

WEAR METALS

		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**<1**	<1	0
Chromium	ppm	ASTM D5185m	>20	**0**	0	0
Nickel	ppm	ASTM D5185m	>20	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**0**	0	0
Lead	ppm	ASTM D5185m	>20	**0**	0	0
Copper	ppm	ASTM D5185m	>20	**1**	1	<1
Tin	ppm	ASTM D5185m	>20	**0**	0	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES

		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	0
Magnesium	ppm	ASTM D5185m		**3**	0	<1
Calcium	ppm	ASTM D5185m		**57**	46	49
Phosphorus	ppm	ASTM D5185m		**542**	455	465
Zinc	ppm	ASTM D5185m		**575**	474	497
Sulfur	ppm	ASTM D5185m		**4737**	3619	4025

CONTAMINANTS

		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**<1**	<1	0
Sodium	ppm	ASTM D5185m		**14**	13	12
Potassium	ppm	ASTM D5185m	>20	**<1**	0	0
Water	%	ASTM D6304	>0.05	**0.013**	0.009	0.009
ppm Water	ppm	ASTM D6304	>500	**139**	93	93.3

FLUID CLEANLINESS

		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**2198**	209	1042
Particles >6µm		ASTM D7647	>1300	**565**	75	290
Particles >14µm		ASTM D7647	>160	**46**	8	27
Particles >21µm		ASTM D7647	>40	**16**	4	9
Particles >38µm		ASTM D7647	>10	**0**	0	1
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**18/16/13**	15/13/10	17/15/12

FLUID DEGRADATION

		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.99**	0.93	1.00

OIL ANALYSIS REPORT

Graphs (left column)

- Water (KF) — Water (ppm) vs dates Jan27/15 – May30/24; Severe ~5000, Abnormal line
- Particle Trend — number of particles (1 ml), 4µm / 6µm / 14µm
- Water (KF) — Water (ppm); Severe, Abnormal
- Viscosity @ 40°C — cSt (40°C); Abnormal lines
- Particle Trend — number of particles (1 ml); 4µm / 6µm / 14µm
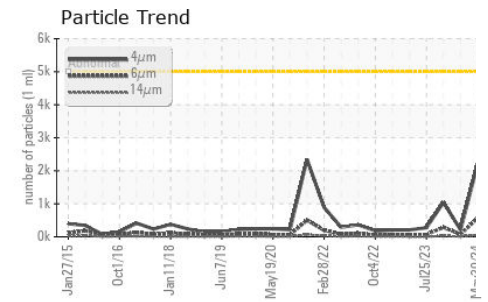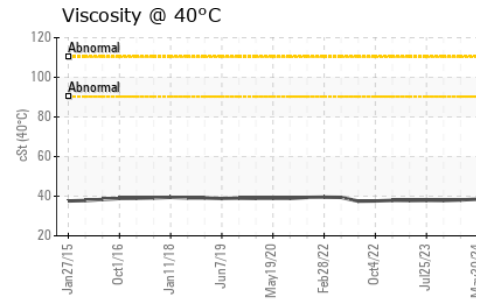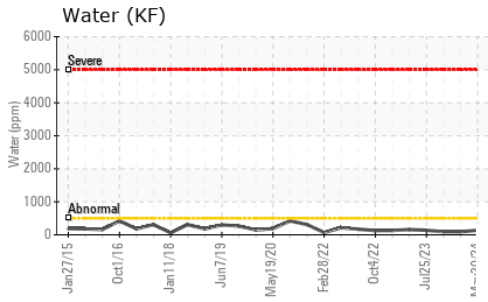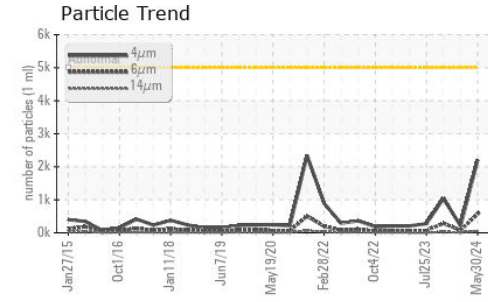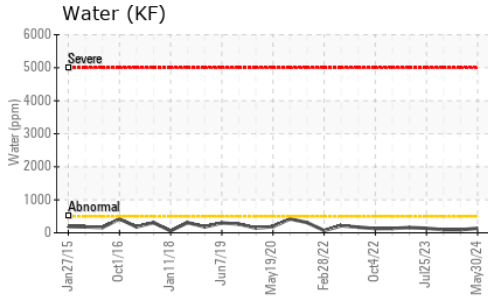
VISUAL

VISUAL	method		limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	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	>0.05	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**38.5**	38.1	37.8

SAMPLE IMAGES

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
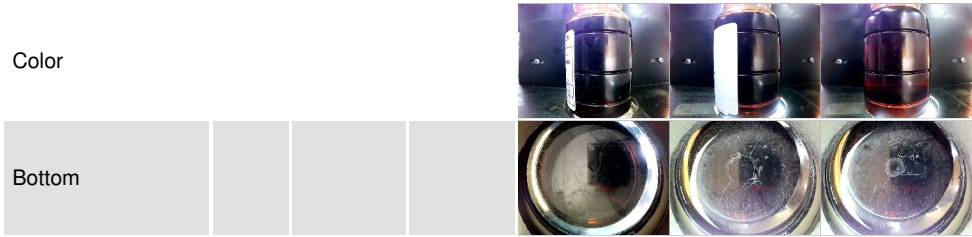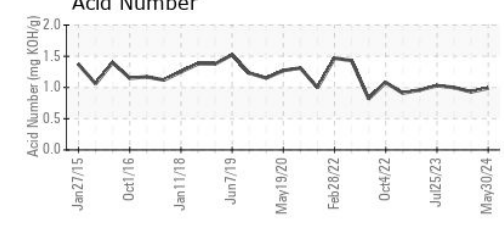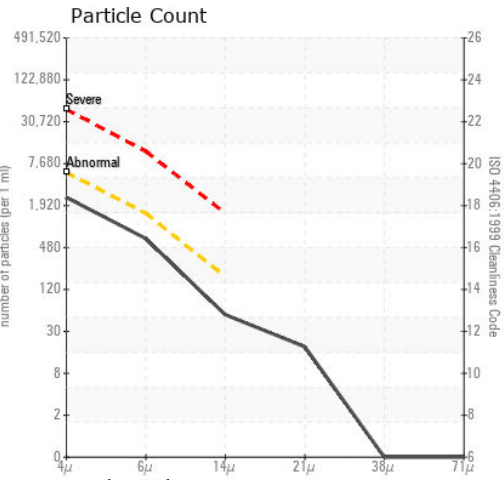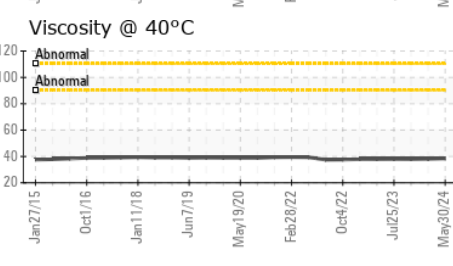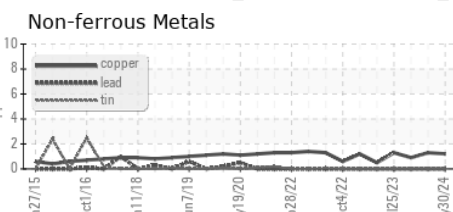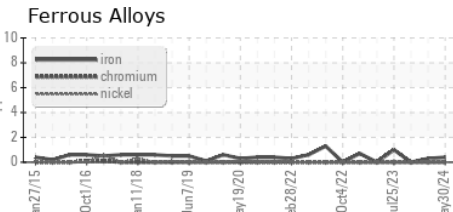
GRAPHS

- Ferrous Alloys — ppm: iron / chromium / nickel
- Particle Count — number of particles (per 1 ml) vs ISO 4406:1999 Cleanliness Code; Severe, Abnormal
- Non-ferrous Metals — ppm: copper / lead / tin
- Viscosity @ 40°C — cSt (40°C); Abnormal
- Acid Number — Acid Number (mg KOH/g)

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)