



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Area

DE Samples - CAT LAB

Machine Id

CATERPILLAR 775D HAUL TRUCK 6355 (S/N 6KR00297)

Component

Hydraulic System

Fluid

TULCO LUBSOIL SUPER HYDRAULIC HZ 46 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO10003106	TO10003129	TO10002758
Sample Date		Client Info		24 May 2024	24 Feb 2024	09 Oct 2023
Machine Age	hrs	Client Info		49573	49032	48474
Oil Age	hrs	Client Info		541	4072	3514
Filter Age	hrs	Client Info		541	0	546
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>26	<1	4	3
Chromium	ppm	ASTM D5185m	>5	0	0	<1
Nickel	ppm	ASTM D5185m	>10	1	0	2
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>11	<1	1	<1
Lead	ppm	ASTM D5185m	>10	<1	▲ 16	0
Copper	ppm	ASTM D5185m	>31	<1	▲ 20	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

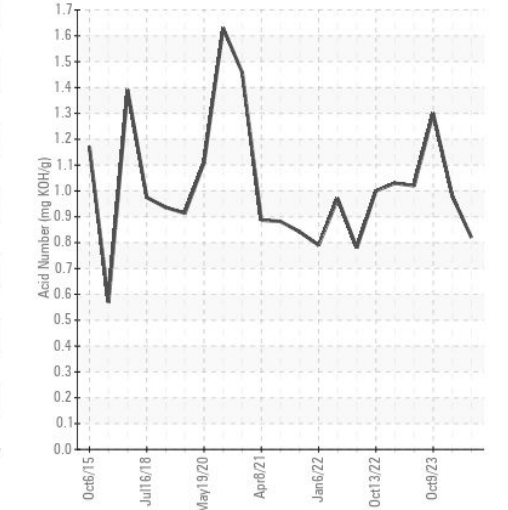
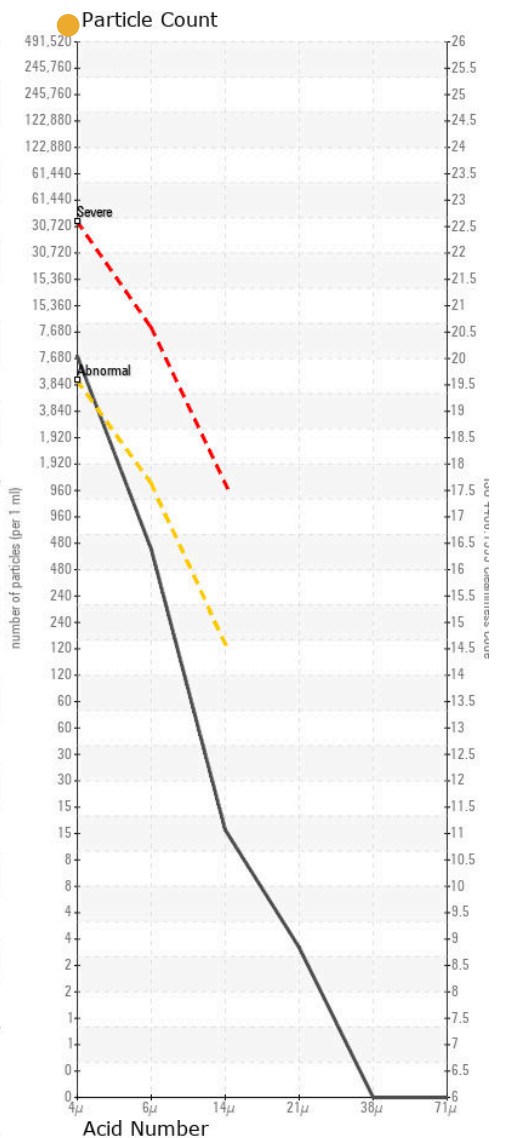
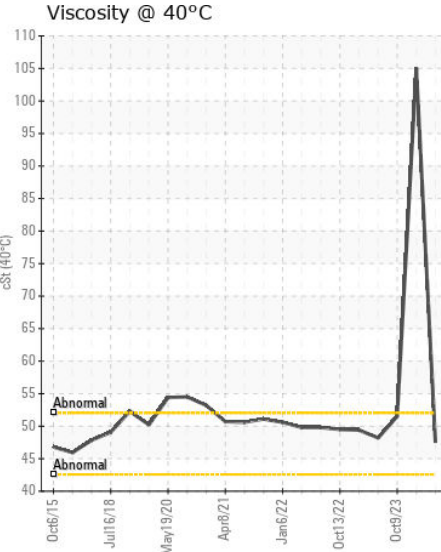
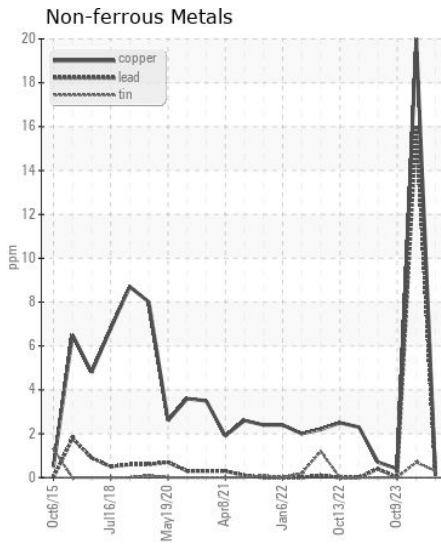
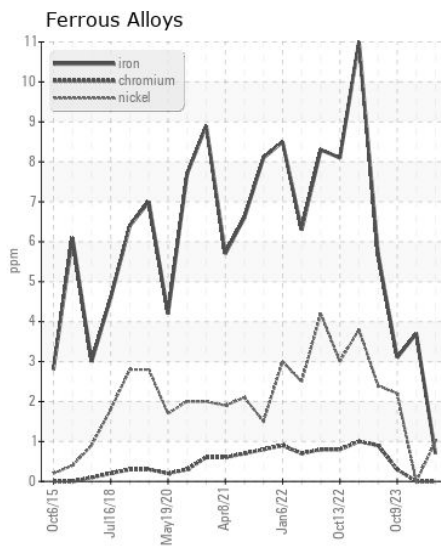
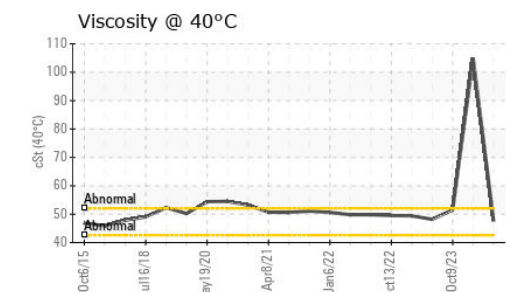
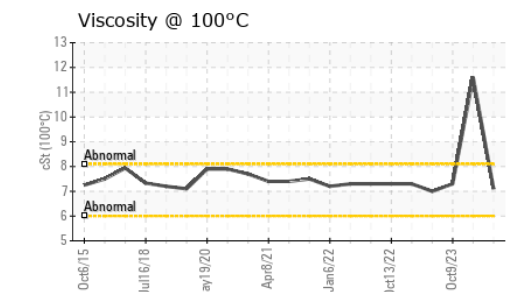
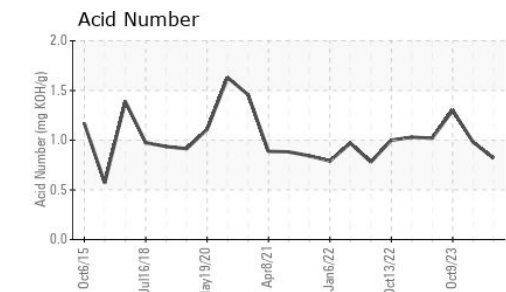
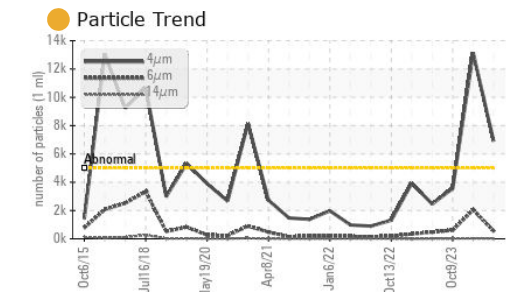
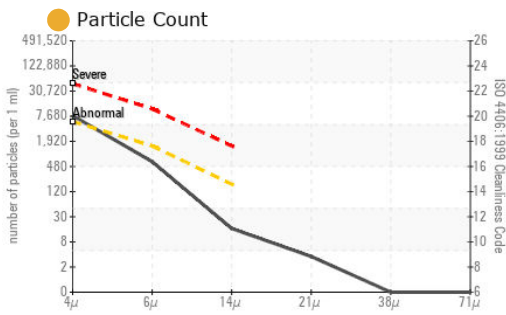
There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>21	5	10	13
Potassium	ppm	ASTM D5185m	>20	3	<1	<1
Water	%	ASTM D6304	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	● 6901	▲ 13157	3560
Particles >6µm		ASTM D7647	>1300	551	● 2053	611
Particles >14µm		ASTM D7647	>160	14	29	15
Particles >21µm		ASTM D7647	>40	3	3	3
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● 20/16/11	▲ 21/18/12	19/16/11
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		4	4	1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		204	● 21	186
Calcium	ppm	ASTM D5185m		162	● 2852	232
Phosphorus	ppm	ASTM D5185m		727	855	690
Zinc	ppm	ASTM D5185m		912	1040	965
Sulfur	ppm	ASTM D5185m		3297	3775	2952
Acid Number (AN)	mg KOH/g	ASTM D8045		0.82	0.98	1.3
Visc @ 40°C	cSt	ASTM D445		47.52	● 105	51.5
Visc @ 100°C	cSt	ASTM D445		7.1	● 11.6	7.3
Viscosity Index (VI)	Scale	ASTM D2270		107	97	100



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10003106
Lab Number : 06192782
Unique Number : 11049534
Test Package : MOB 2 (Additional Tests: KF, KV100, VI)

ANCHOR STONE TULSA ROCK
 TULSA ROCK QUARRY, 66TH ST N 145TH AVENUE
 TULSA, OK
 US 74137

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)

Received : 28 May 2024
Tested : 05 Jun 2024
Diagnosed : 05 Jun 2024 - Jonathan Hester

Contact: MIKE SNYDER
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