CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
OKLAHOMA/102
Machine Id
74.28 [OKLAHOMA^102]
Component
Hydraulic System
Fluid
MOBIL DELVAC 1300 SUPER15W40 (38 GAL)

RECOMMENDATION

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

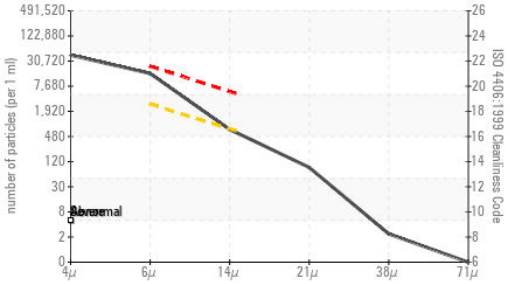
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

FLUID CONDITION

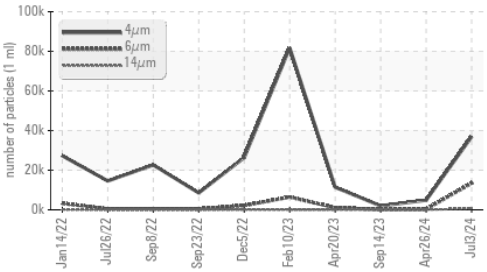
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0945686**	WC0935211	WC0848983
Sample Date		Client Info		**03 Jul 2024**	26 Apr 2024	14 Sep 2023
Machine Age	hrs	Client Info		**2671**	2257	2160
Oil Age	hrs	Client Info		**2160**	500	1000
Filter Age	hrs	Client Info		**200**	500	1000
Oil Changed		Client Info		**Changed**	N/A	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>20	**8**	9	16
Chromium	ppm	ASTM D5185m	>10	**<1**	0	0
Nickel	ppm	ASTM D5185m	>10	**<1**	0	0
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**2**	2	1
Lead	ppm	ASTM D5185m	>10	**<1**	<1	0
Copper	ppm	ASTM D5185m	>75	**2**	1	5
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
Silicon	ppm	ASTM D5185m	>20	**8**	8	9
Potassium	ppm	ASTM D5185m	>20	**3**	2	5
Water		WC Method	>0.1	**NEG**	NEG	NEG
Particles >4µm		ASTM D7647		**36892**	4867	1997
Particles >6µm		ASTM D7647	>2500	▲ **13471**	242	156
Particles >14µm		ASTM D7647	>640	**622**	9	13
Particles >21µm		ASTM D7647	>160	**77**	3	3
Particles >38µm		ASTM D7647	>40	**2**	0	0
Particles >71µm		ASTM D7647	>10	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>--/18/16	▲ **22/21/16**	19/15/10	18/14/11
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
Sodium	ppm	ASTM D5185m		**0**	2	3
Boron	ppm	ASTM D5185m	0	**29**	22	4
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**<1**	0	0
Manganese	ppm	ASTM D5185m		**<1**	<1	0
Magnesium	ppm	ASTM D5185m	0	**13**	14	10
Calcium	ppm	ASTM D5185m		**2276**	1922	740
Phosphorus	ppm	ASTM D5185m		**946**	940	739
Zinc	ppm	ASTM D5185m		**1150**	1100	983
Sulfur	ppm	ASTM D5185m		**3734**	3982	2693
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.31**	1.10	0.61
Visc @ 40°C	cSt	ASTM D445	109	**75.9**	66.8	48.0

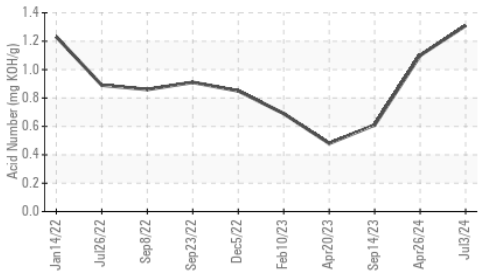
Particle Count



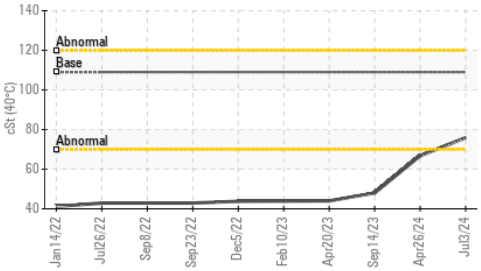
Particle Trend



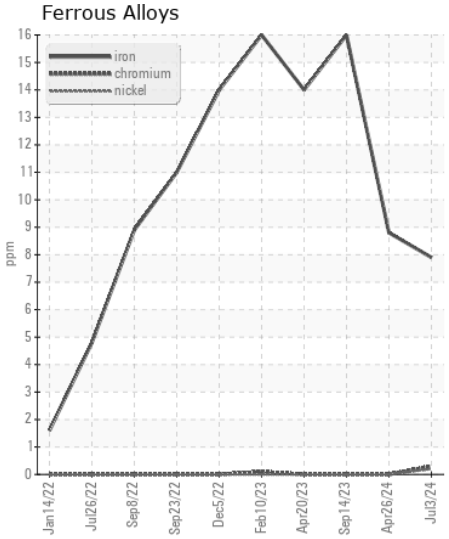
Acid Number



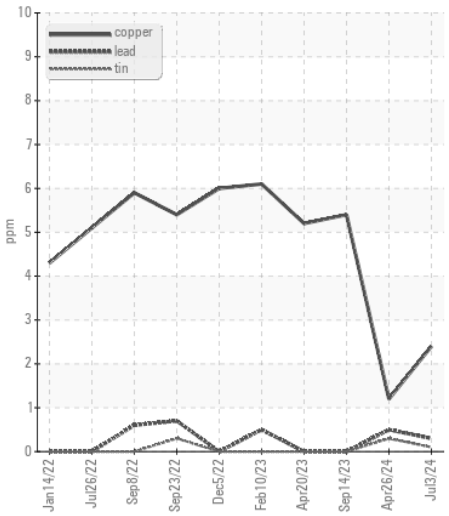
Viscosity @ 40°C



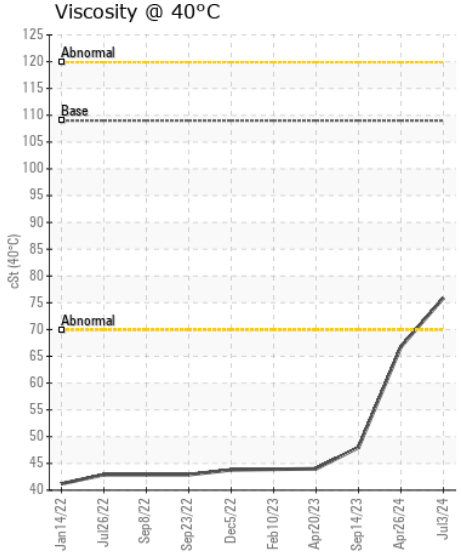
Ferrous Alloys



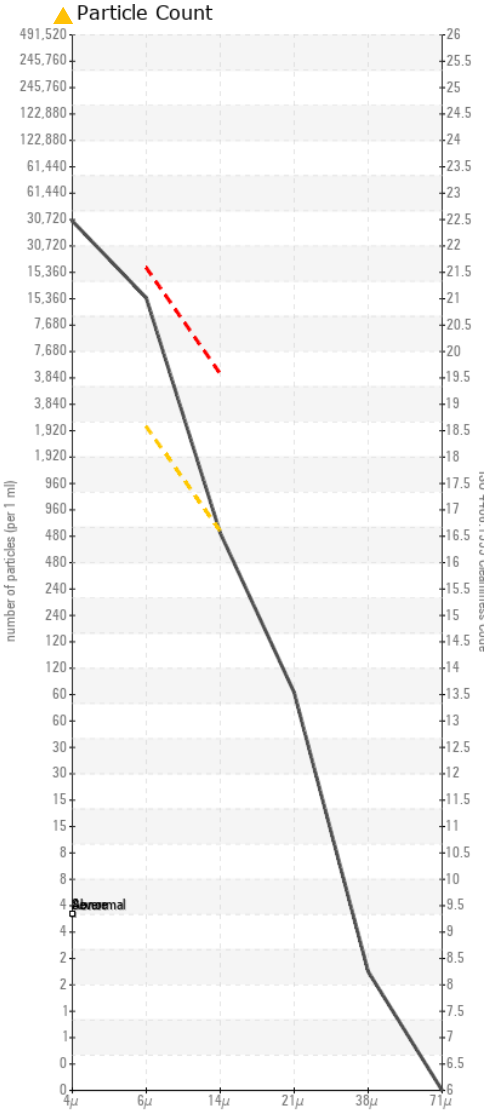
Non-ferrous Metals



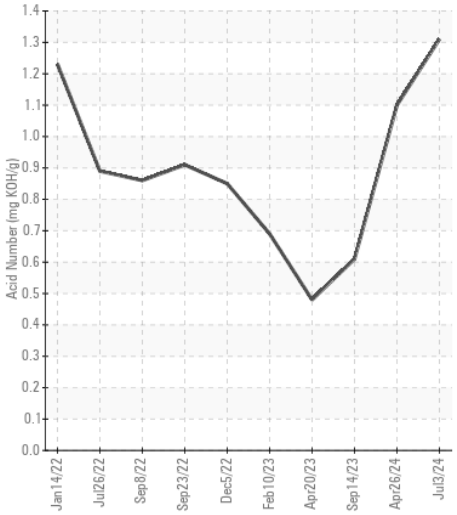
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0945686
Lab Number : 06235846
Unique Number : 11124680
Test Package : CONST

Received : 15 Jul 2024
Tested : 16 Jul 2024
Diagnosed : 16 Jul 2024 - Wes Davis

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)

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