MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
PCS - PORTABLE CRUSHING SERVICES
Machine Id
CASE 1121G LD04 - PCS
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SDE SAE 15W40 (30 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

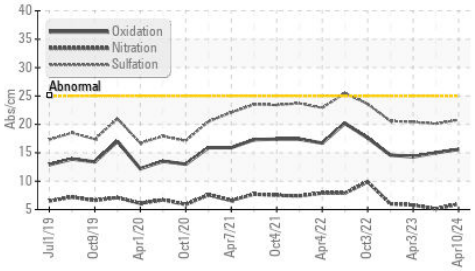
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

FLUID CONDITION

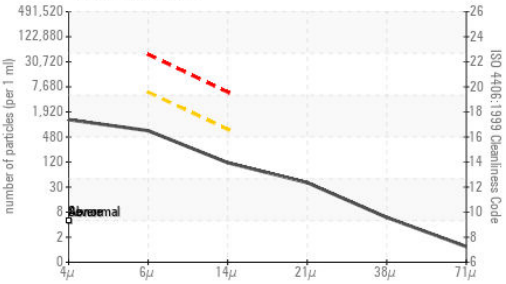
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013768	KL0013960	KL0009479
Sample Date		Client Info		10 Apr 2024	09 Jan 2024	03 Apr 2023
Machine Age	hrs	Client Info		7673	7387	6596
Oil Age	hrs	Client Info		336	50	5037
Filter Age	hrs	Client Info		336	50	5037
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	4	3	4
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	2	2
Lead	ppm	ASTM D5185m	>40	1	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	3	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	6	3	5
Potassium	ppm	ASTM D5185m	>20	2	11	0
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.0	5.1	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	20.1	20.4
Particles >4µm		ASTM D7647		1096	1305	5566
Particles >6µm		ASTM D7647	>5000	597	711	3032
Particles >14µm		ASTM D7647	>640	102	121	516
Particles >21µm		ASTM D7647	>160	34	41	174
Particles >38µm		ASTM D7647	>40	5	6	27
Particles >71µm		ASTM D7647	>10	1	1	3
Oil Cleanliness		ISO 4406 (c)	>19/16	16/14	17/14	19/16
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	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		3	4	2
Boron	ppm	ASTM D5185m		460	280	412
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		76	65	94
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		471	366	353
Calcium	ppm	ASTM D5185m		1507	1575	1461
Phosphorus	ppm	ASTM D5185m	760	1110	906	951
Zinc	ppm	ASTM D5185m	800	1210	1061	1116
Sulfur	ppm	ASTM D5185m	3000	4476	4278	4127
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	15.0	14.3
Base Number (BN)	mg KOH/g	ASTM D2896	10	8.61	7.95	8.76
Visc @ 100°C	cSt	ASTM D445	14.6	13.3	13.1	13.6

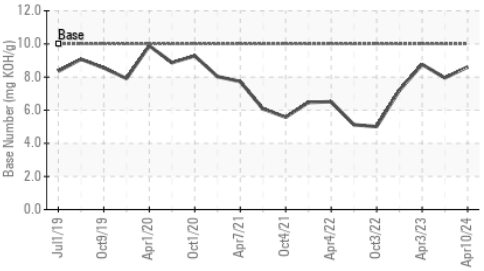
FT-IR (Direct Trend)



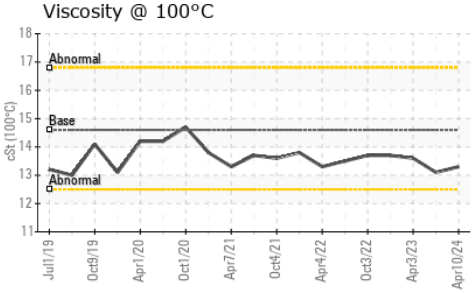
Particle Count



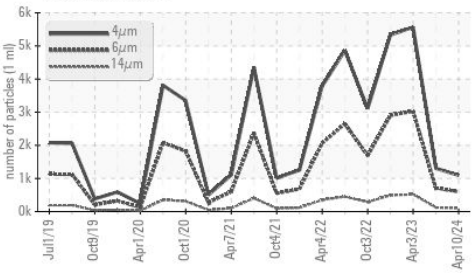
Base Number



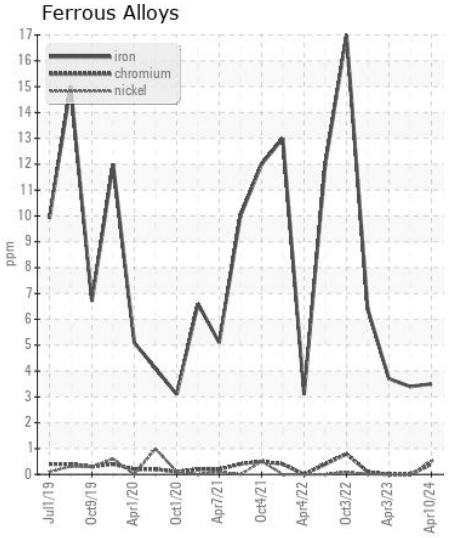
Viscosity @ 100°C



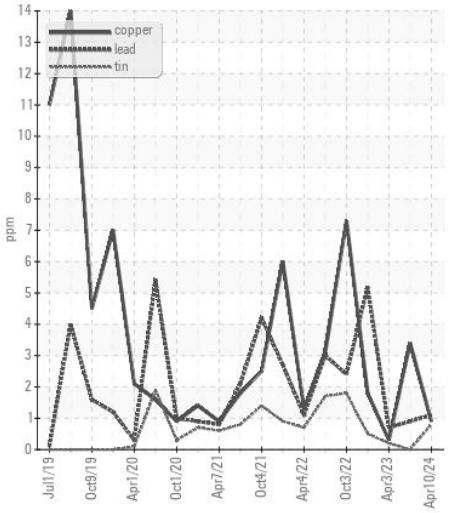
Particle Trend



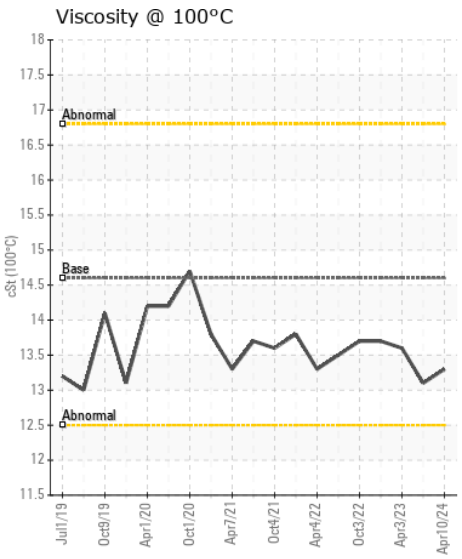
Ferrous Alloys



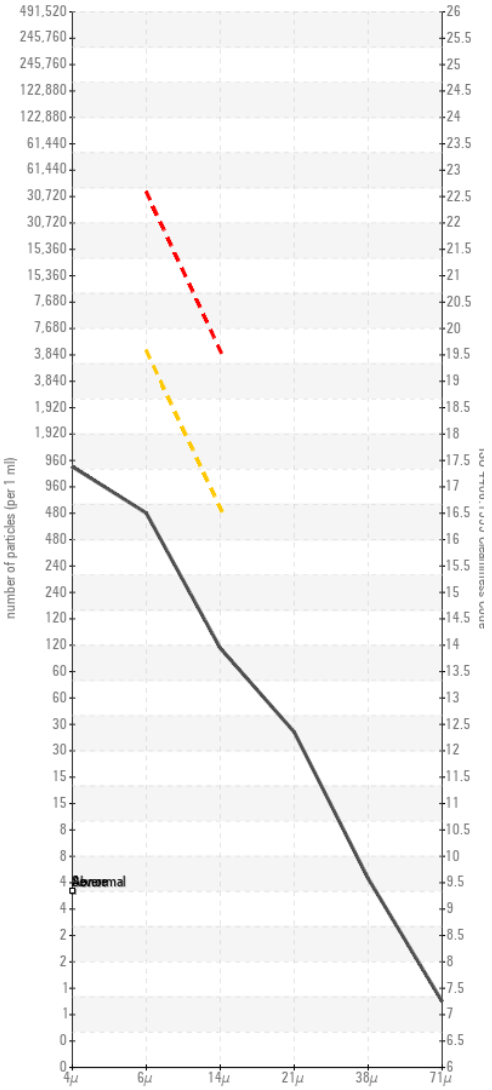
Non-ferrous Metals



Viscosity @ 100°C



Particle Count



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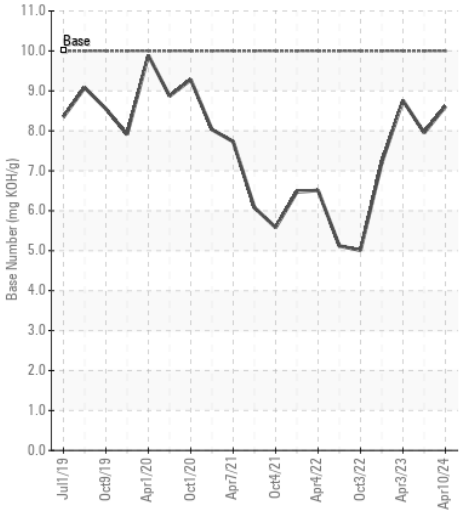

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013768
Lab Number : 06150601
Unique Number : 10980679
Test Package : MOB 2 (Additional Tests: PrtCount)

Received : 16 Apr 2024
Tested : 17 Apr 2024
Diagnosed : 18 Apr 2024 - Sean Felton

Certificate L2367

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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