MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
PCS - PORTABLE CRUSHING SERVICES
Machine Id
CASE SV250 SKID LD14 - PCS
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SDE SAE 15W40 (--- QTS)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. 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

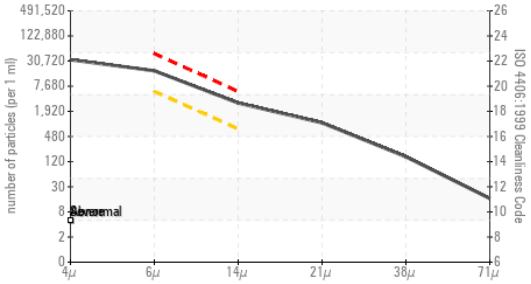
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

FLUID CONDITION

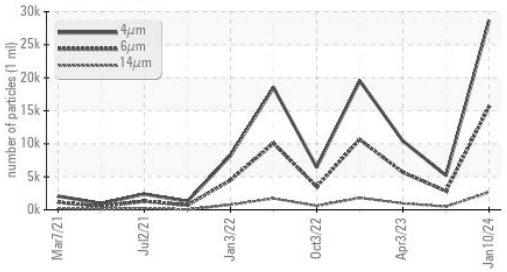
The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0014074	KL0013062	KL0009471
Sample Date		Client Info		10 Jan 2024	03 Oct 2023	03 Apr 2023
Machine Age	hrs	Client Info		4557	4493	4345
Oil Age	hrs	Client Info		50	280	132
Filter Age	hrs	Client Info		50	280	132
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	23	22	45
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>4	<1	1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	2	▲ 8
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	3	12	32
Tin	ppm	ASTM D5185m	>15	0	0	0
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	18	23	▲ 26
Potassium	ppm	ASTM D5185m	>20	2	5	4
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	4.6	6.2	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	20.6	20.7
Particles >4µm		ASTM D7647		28657	5202	10423
Particles >6µm		ASTM D7647	>5000	▲ 15611	2834	▲ 5678
Particles >14µm		ASTM D7647	>640	▲ 2657	482	▲ 966
Particles >21µm		ASTM D7647	>160	▲ 895	162	▲ 325
Particles >38µm		ASTM D7647	>40	▲ 138	25	▲ 50
Particles >71µm		ASTM D7647	>10	▲ 14	3	5
Oil Cleanliness		ISO 4406 (c)	>19/16	▲ 21/19	19/16	▲ 20/17
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		0	22	125
Boron	ppm	ASTM D5185m		365	331	251
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		76	105	114
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		321	378	374
Calcium	ppm	ASTM D5185m		1556	1332	1251
Phosphorus	ppm	ASTM D5185m	760	1002	1041	994
Zinc	ppm	ASTM D5185m	800	1210	1285	1221
Sulfur	ppm	ASTM D5185m	3000	4205	3354	3417
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	15.0	14.5
Base Number (BN)	mg KOH/g	ASTM D2896	10	8.94	9.60	9.50
Visc @ 100°C	cSt	ASTM D445	14.6	14.1	14.5	14.4

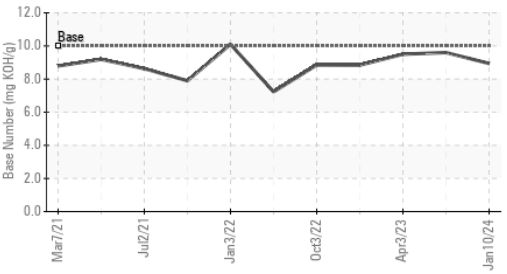
Particle Count



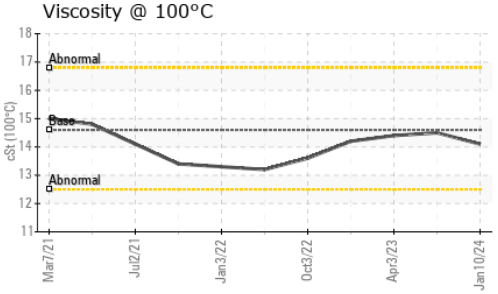
Particle Trend



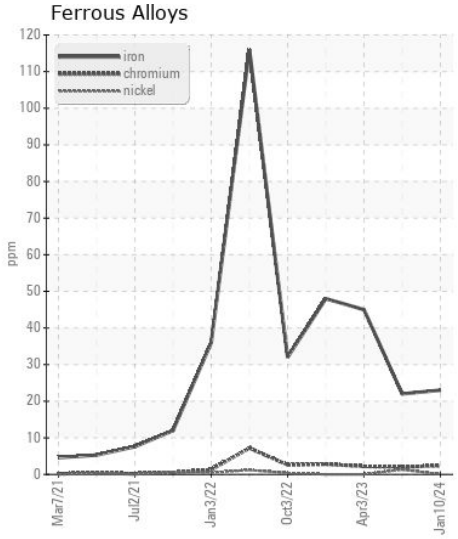
Base Number



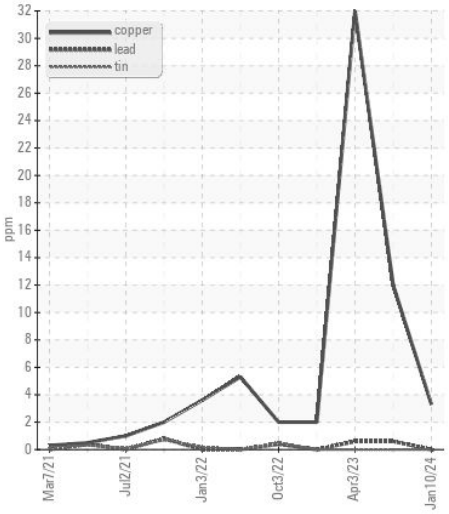
Viscosity @ 100°C



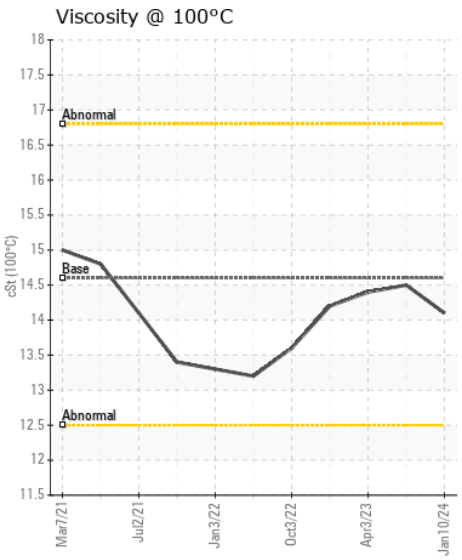
Ferrous Alloys



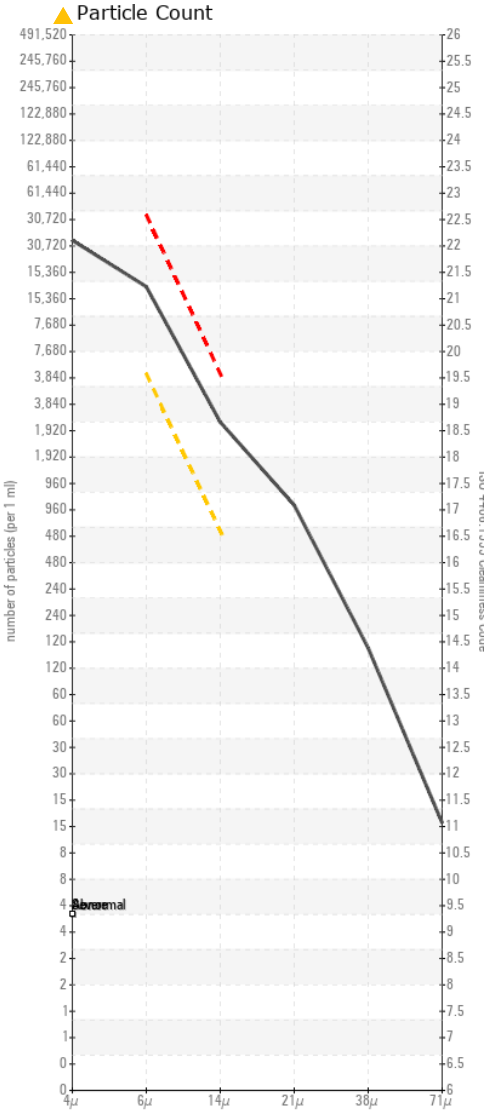
Non-ferrous Metals



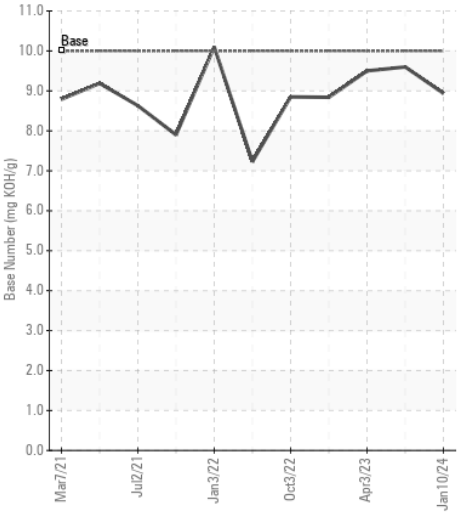
Viscosity @ 100°C



Particle Count



Base Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: KL0014074	**Recieved**	: 16 Jan 2024
Lab Number	: 06061362	**Diagnosed**	: 18 Jan 2024
Unique Number	: 10832744	**Diagnostician**	: Wes Davis
Test Package	: MOB 2 (Additional Tests: PrtCount)		

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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