



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
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

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		KL0013799	KL0014074	KL0013062
Sample Date		Client Info		10 Apr 2024	10 Jan 2024	03 Oct 2023
Machine Age	hrs	Client Info		4643	4557	4493
Oil Age	hrs	Client Info		136	50	280
Filter Age	hrs	Client Info		136	50	280
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Not Chngd	Changed	Not Chngd
Sample Status				ATTENTION	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	39	23	22
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	7	2
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	5	3	12
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

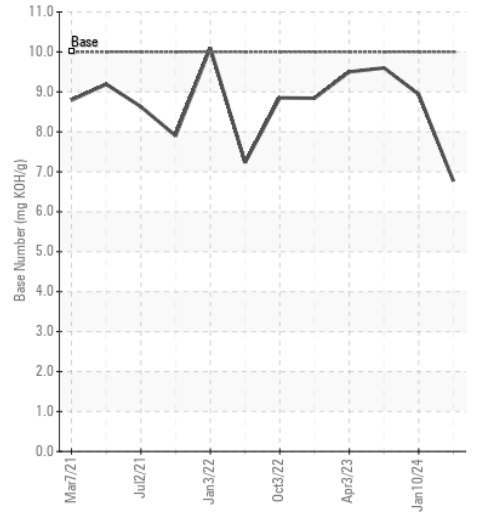
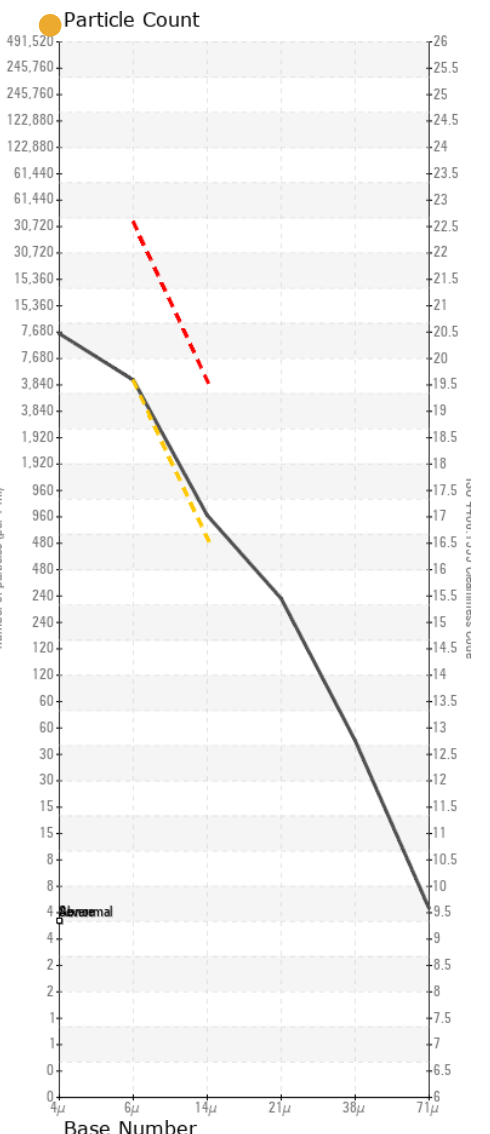
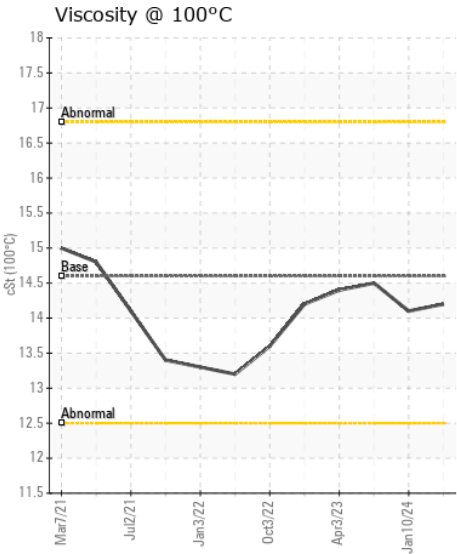
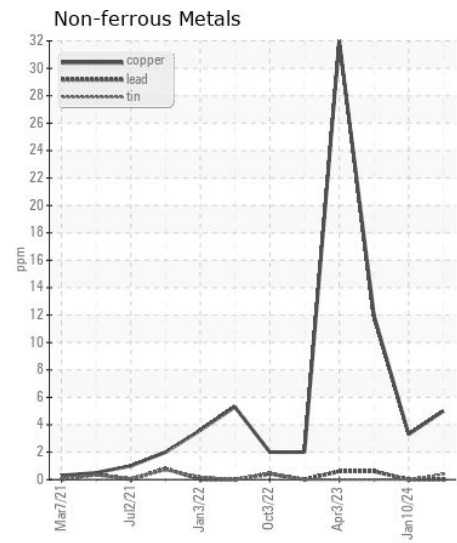
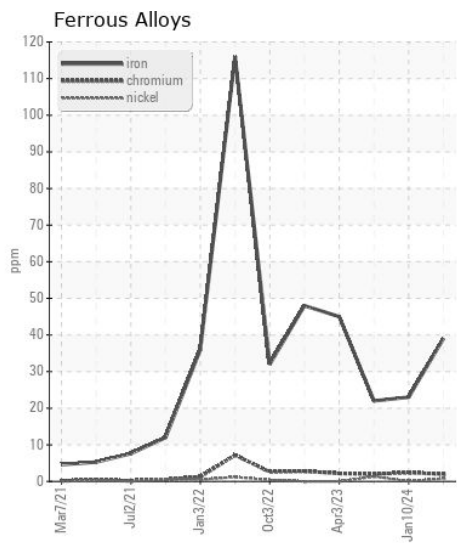
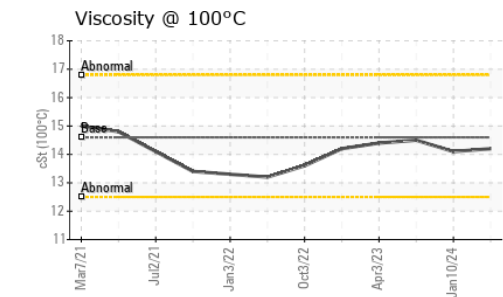
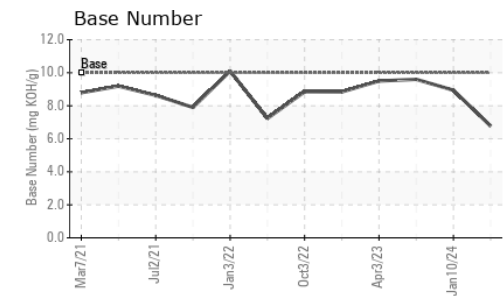
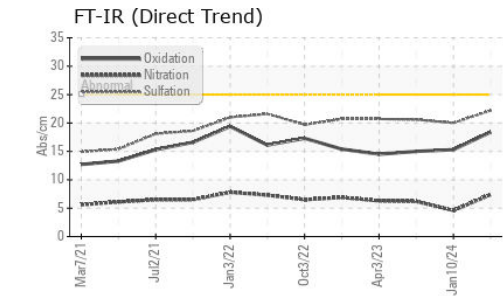
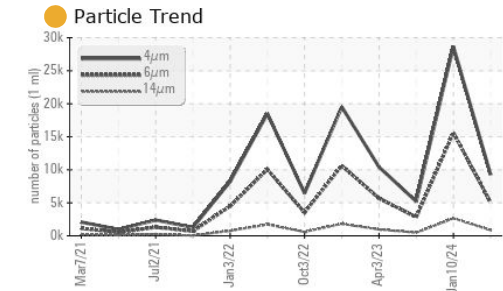
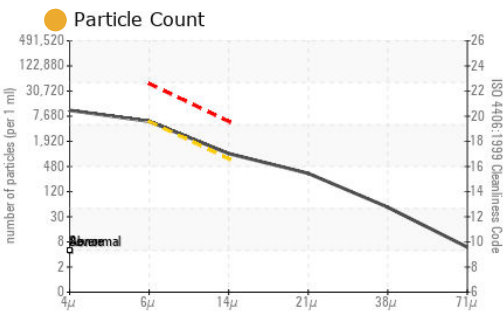
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	19	18	23
Potassium	ppm	ASTM D5185m	>20	6	2	5
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	0.2	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.4	4.6	6.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	20.0	20.6
Particles >4µm		ASTM D7647		9257	28657	5202
Particles >6µm		ASTM D7647	>5000	5043	▲ 15611	2834
Particles >14µm		ASTM D7647	>640	858	▲ 2657	482
Particles >21µm		ASTM D7647	>160	289	▲ 895	162
Particles >38µm		ASTM D7647	>40	45	▲ 138	25
Particles >71µm		ASTM D7647	>10	5	▲ 14	3
Oil Cleanliness		ISO 4406 (c)	>19/16	20/17	▲ 21/19	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

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.

Sodium	ppm	ASTM D5185m		5	0	22
Boron	ppm	ASTM D5185m		404	365	331
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		82	76	105
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		352	321	378
Calcium	ppm	ASTM D5185m		1802	1556	1332
Phosphorus	ppm	ASTM D5185m	760	1104	1002	1041
Zinc	ppm	ASTM D5185m	800	1306	1210	1285
Sulfur	ppm	ASTM D5185m	3000	5224	4205	3354
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	15.3	15.0
Base Number (BN)	mg KOH/g	ASTM D2896	10	6.77	8.94	9.60
Visc @ 100°C	cSt	ASTM D445	14.6	14.2	14.1	14.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013799 **Received** : 16 Apr 2024
Lab Number : 06150592 **Tested** : 17 Apr 2024
Unique Number : 10980670 **Diagnosed** : 18 Apr 2024 - Don Baldrige
Test Package : MOB 2 (Additional Tests: PrtCount)

PIKES PEAK PERFORMANCE PRODUCTS
 7888 BULLET RD
 PEYTON, CO
 US 80831
 Contact: SCOTT RIGGS
 sriggs.pikespeakperformance@gmail.com
 T: (303)434-0126
 F: x:

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)