



VOLVO

OIL ANALYSIS REPORT

WEAR	MARGINAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL



Area
[8-400712]
 Machine Id
27-4550
 Component
Right Swing Drive
 Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP450443	VCP394921	VCP352408
Sample Date		Client Info		12 Apr 2024	28 Jun 2023	18 Oct 2022
Machine Age	hrs	Client Info		12023	11005	10003
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Chromium ppm levels are marginal. All other component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>1200	948	65	84
Chromium	ppm	ASTM D5185(m)	>10	▲ 10	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	0
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)		<1	5	0
Aluminum	ppm	ASTM D5185(m)	>25	2	2	2
Lead	ppm	ASTM D5185(m)	>50	0	0	2
Copper	ppm	ASTM D5185(m)	>50	20	5	8
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

Lithium (Li) level abnormal 17ppm., indicates possible grease contamination.

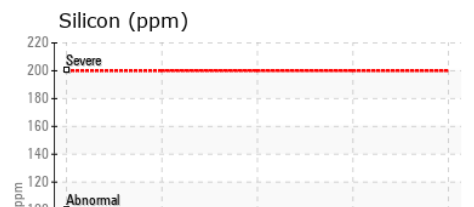
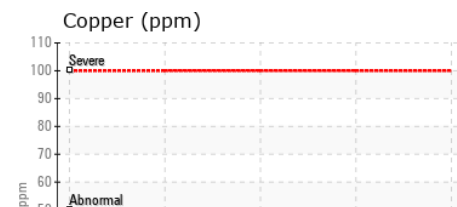
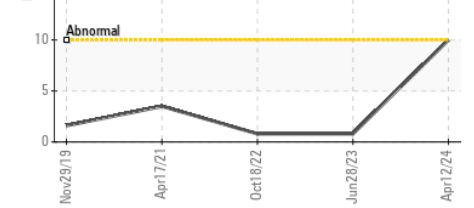
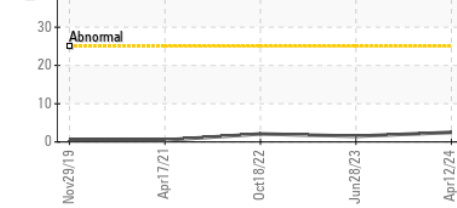
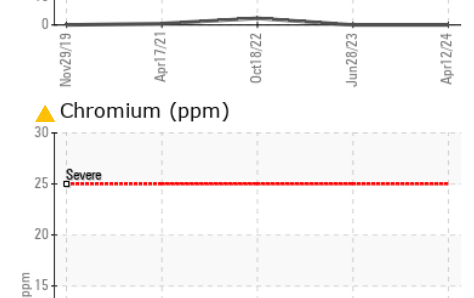
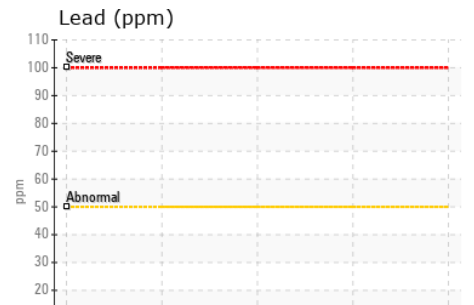
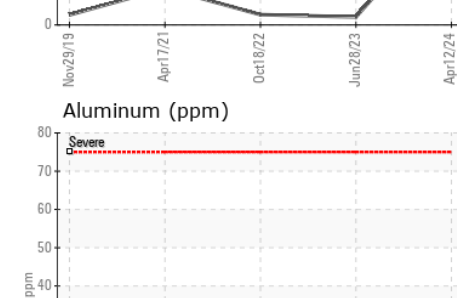
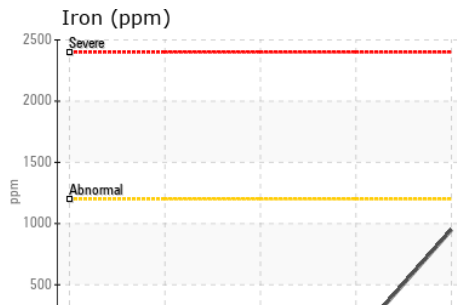
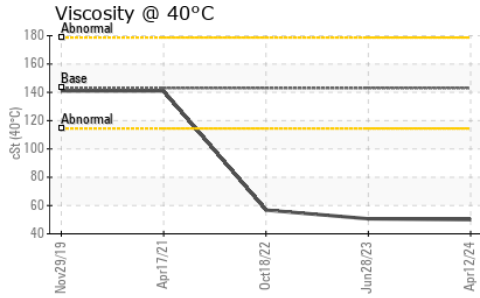
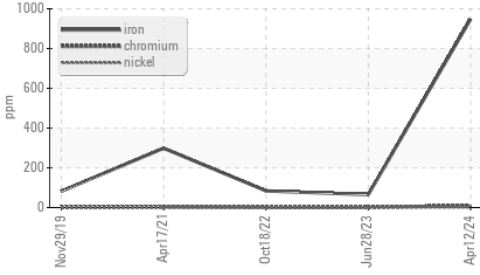
Silicon	ppm	ASTM D5185(m)	>100	27	18	17
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
Water		WC Method	>0.25	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.25	NEG	NEG	NEG

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 75W80 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)	>170	2	2	4
Boron	ppm	ASTM D5185(m)	400	188	253	207
Barium	ppm	ASTM D5185(m)	200	0	0	0
Molybdenum	ppm	ASTM D5185(m)	12	0	0	0
Manganese	ppm	ASTM D5185(m)		8	<1	1
Magnesium	ppm	ASTM D5185(m)	12	1	2	2
Calcium	ppm	ASTM D5185(m)	150	25	12	15
Phosphorus	ppm	ASTM D5185(m)	1650	2330	2500	2287
Zinc	ppm	ASTM D5185(m)	125	37	15	15
Sulfur	ppm	ASTM D5185(m)	22500	25077	25596	27221
Visc @ 40°C	cSt	ASTM D7279(m)	143	50.0	50.6	56.8

▲ Ferrous Alloys



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP450443 **Received** : 26 Apr 2024
Lab Number : 02631716 **Tested** : 26 Apr 2024
Unique Number : 5772869 **Diagnosed** : 29 Apr 2024 - Kevin Marson
Test Package : MOB 1

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.