CONST

ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
Ascendum Machinery
Machine Id
VOLVO EC380E EX-02 (S/N 310020)
Component
Swing Drive
Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

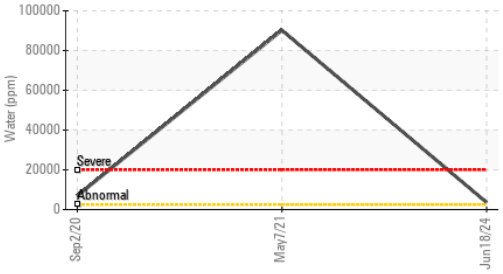
Appearance is milky. There is a light concentration of water present in the oil.

FLUID CONDITION

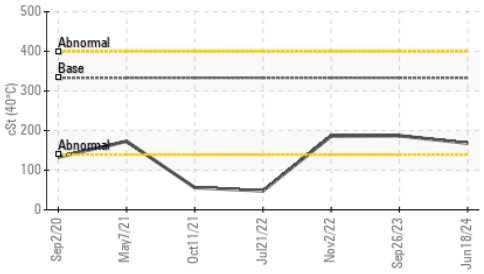
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0009779	ASC0001416	VCP0004480
Sample Date		Client Info		18 Jun 2024	26 Sep 2023	02 Nov 2022
Machine Age	hrs	Client Info		11997	11014	10493
Oil Age	hrs	Client Info		983	521	555
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>1200	139	62	168
Chromium	ppm	ASTM D5185m	>10	1	<1	1
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	3	4
Lead	ppm	ASTM D5185m	>50	0	0	<1
Copper	ppm	ASTM D5185m	>50	15	7	10
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>100	10	8	14
Potassium	ppm	ASTM D5185m	>20	3	1	<1
Water	%	ASTM D6304	>0.25	▲ 0.357	---	---
ppm Water	ppm	ASTM D6304	>2500	▲ 3570	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	● MILKY	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.25	0.2%	NEG	NEG
Sodium	ppm	ASTM D5185m		3	0	2
Boron	ppm	ASTM D5185m	111	127	160	117
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.9	<1	2	2
Manganese	ppm	ASTM D5185m	0.0	2	<1	2
Magnesium	ppm	ASTM D5185m	39	9	10	11
Calcium	ppm	ASTM D5185m	93	252	210	121
Phosphorus	ppm	ASTM D5185m	920	983	922	1073
Zinc	ppm	ASTM D5185m	104	218	168	122
Sulfur	ppm	ASTM D5185m	20179	27656	25700	29466
Visc @ 40°C	cSt	ASTM D445	333	168	187	186

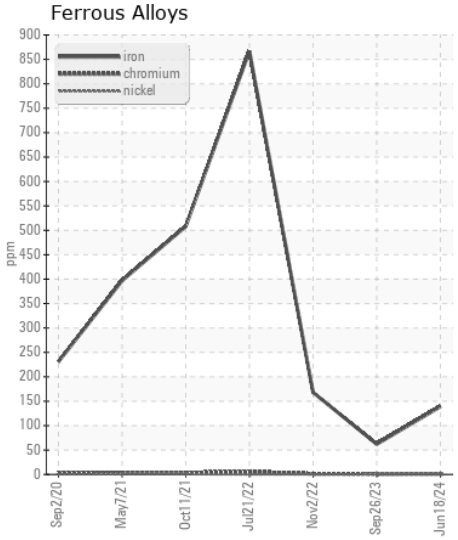
Water (KF)



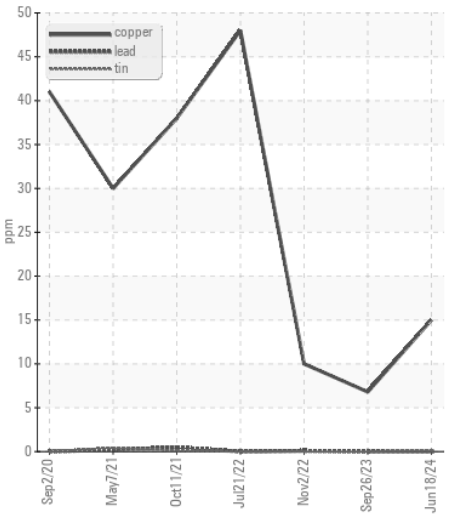
Viscosity @ 40°C



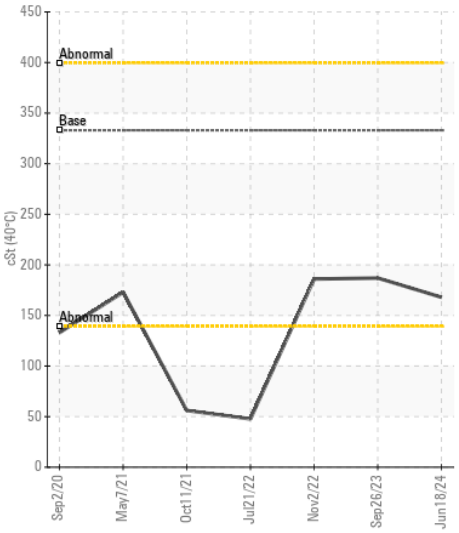
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0009779
Lab Number : 06217184
Unique Number : 11090048
Test Package : CONST (Additional Tests: KF)
Received : 21 Jun 2024
Tested : 24 Jun 2024
Diagnosed : 24 Jun 2024 - Don Baldridge

CAROLINA EXCAVATING
1036 BRANCHVIEW DR, SUITE 106
CONCORD, NC
US 28025
Contact: KEVIN LADGERWOOD
kevin@carlinaexcavation.com
T:
F:

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)