Sample No: VCP413602

Oil Type: CHEVRON DELO GEAR ESI OIL 85W140

**Job No:** 9535

SAMPLI	INFORMATION				
Sample Number		VCP413602	VCP272103	VCP235045	VCP194989
Sample Date		28 Aug 2023	13 Jun 2020	17 Nov 2018	11 Jan 2018
Machine Hours		4209	2176	1016	485
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		SEVERE	SEVERE	SEVERE	ABNORMAL
OIL CON	DITION				
Visc @ 40°C	cSt	<b>1676</b>	211	65.37	178.4
CONTAI	MINATION				
Water	%	<b>△</b> 0.632			
Silicon	ppm	4350	1449	<b>355</b>	<u>▲</u> 192
Sodium	ppm	<b>13</b>	<b>144</b> 3	<b>2</b>	<b>3</b>
Potassium	ppm	■ 192	<b>3</b> 9	■ 18	12
Totassiam	ррш	<b>132</b>		10	12
WEAR N	METALS				
Iron	ppm	7287	2770	<u></u> 1262	■199
Copper	ppm	<b>■</b> 4	<b>2</b>	<b>1</b>	< 1
Lead	ppm	<b>■&lt;1</b>	< 1	<b>0</b>	□0
Tin	ppm	<b>1</b>	<b>1</b>	□ 0	<b>0</b>
Aluminum	ppm	<b>428</b>	<b>△</b> 167	<b>▲</b> 82	<b>△</b> 66
Chromium	ppm	<b>83</b>	• 30	<b>▲</b> 12	■3
Molybdenum	ppm	<b>10</b>	<b>0</b>	0	<1
Nickel	ppm	<b>■8</b>	2	<1	<1
Titanium	ppm	■ 60	<b>2</b> 3	6	4
Silver	ppm	0	0	0	0
Manganese	ppm	■54	<b>2</b> 2	10	3
Vanadium	ppm	2	<1	<1	<1
ADDITIV	/ES				
Calcium	ppm	<b>140</b>	<b>5</b> 7	13	16
Magnesium	ppm	■102	<b>1</b> 5	6	4
Zinc	ppm	■32	■36	22	16
Phosphorus	ppm	■993	<b>1059</b>	1826	425
Barium	ppm	<b>2</b>	<b>-</b> <1	<1	3
Boron	ppm	<b>161</b>	<b>1</b> 116	88	<1



## **DIRT PLUS**

1001 PRINCE GEORGES BLVD UPPER MARLBORO, MD US 20772 Contact: MARCO DECESARIS

Contact: MARCO DECESARIS mdecesaris@dirtplus.biz

T: F:

## Diagnosis

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Please note that there was too much contamination present in the oil to perform an accurate viscosity test. Gear wear is indicated. There is a moderate concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

Depot:DIRUPPUnique No:10635508Signed:Don BaldridgeReport Date:10 Sep 2023



## **CONSTRUCTION EQUIPMENT**





